

TOBACCO INSTITUTE TESTING LABORATORY  
TAR, NICOTINE AND CARBON MONOXIDE

SUMMARIES

MARKET SAMPLE NO. 26

PM3000763236

**TAR, NICOTINE  
AND  
CARBON MONOXIDE  
ALPHABETICAL DATA SUMMARY  
BY COMPANY**

PM3000763237

| American Brands               | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|-------------------------------|---------------|--------------------|--------------|
| Bull Durham KFSP              | 29.1±0.6      | 2.10±0.06          | 23.1±0.4     |
| Carlton KFHP                  | *             | <0.02              | 0.0±0.03     |
| Carlton KFSP                  | 0.8±0.1       | 0.12±0.01          | 1.8±0.1      |
| Carlton KFMSP                 | 0.4±0.1       | 0.09±0.01          | 1.1±0.1      |
| Carlton 100's 100FHP          | 0.4±0.1       | 0.09±0.01          | 0.8±0.1      |
| Carlton 100's 100FMHP         | 0.6±0.1       | 0.10±0.02          | 0.8±0.2      |
| Carlton 100's 100FSP          | 4.1±0.3       | 0.42±0.02          | 5.7±0.4      |
| Carlton 100's 100FMSP         | 4.1±0.3       | 0.43±0.03          | 5.6±0.5      |
| Carlton 120's 120FSP          | 5.3±0.3       | 0.58±0.02          | 4.6±0.2      |
| Carlton 120's 120FMSP         | 5.9±0.3       | 0.66±0.03          | 5.2±0.2      |
| Half & Half KFSP              | 17.8±0.5      | 1.51±0.04          | 16.9±0.4     |
| Herbert Tareyton KNFSP        | 27.6±0.7      | 1.94±0.05          | 19.2±0.6     |
| Iceberg 100's 100FMSP         | 2.5±0.1       | 0.28±0.01          | 3.6±0.2      |
| Long Johns 120FSP             | 18.7±0.5      | 1.59±0.04          | 19.8±0.8     |
| Long Johns 120FMSP            | 15.9±0.5      | 1.43±0.04          | 17.9±0.9     |
| Lucky Strike RNFSP            | 24.5±0.6      | 1.56±0.03          | 16.9±0.4     |
| Lucky Ten KFSP                | 8.6±0.3       | 0.74±0.03          | 10.6±0.3     |
| Lucky 100's 100FSP            | 3.2±0.1       | 0.34±0.01          | 5.0±0.2      |
| Montclair KFMSP               | 15.8±0.3      | 1.11±0.03          | 16.1±0.4     |
| Pall Mall KNFSP               | 24.8±0.6      | 1.70±0.04          | 17.4±0.4     |
| Pall Mall KFSP                | 17.6±0.4      | 1.29±0.04          | 18.6±0.6     |
| Pall Mall 100FSP              | 16.0±0.4      | 1.31±0.03          | 16.6±0.5     |
| Pall Mall Extra Light KFSP    | 6.4±0.2       | 0.64±0.02          | 7.2±0.2      |
| Pall Mall Light 100's 100FSP  | 9.0±0.3       | 0.86±0.02          | 8.5±0.3      |
| Pall Mall Light 100's 100FMSP | 12.8±0.3      | 1.14±0.03          | 12.8±0.3     |
| Silva Thins 100's 100FSP      | 12.2±0.5      | 1.15±0.04          | 10.4±0.4     |
| Silva Thins 100's 100FMSP     | 11.9±0.5      | 1.14±0.05          | 10.2±0.4     |
| Tall 120s 120FSP              | 18.2±0.5      | 1.60±0.04          | 20.1±0.4     |
| Tall 120s 120FMSP             | 16.0±0.4      | 1.42±0.03          | 17.6±0.8     |
| Tareyton KFSP                 | 14.8±0.4      | 1.12±0.03          | 16.5±0.6     |
| Tareyton 100's 100FSP         | 14.3±0.4      | 1.15±0.03          | 17.1±0.6     |
| Tareyton Lights KFSP          | 4.4±0.3       | 0.42±0.02          | 5.1±0.3      |
| Tareyton Long Lights 100FSP   | 7.0±0.4       | 0.68±0.04          | 7.5±0.5      |
| Tareyton Ultra Low Tar KFMSP  | 1.0±0.3       | 0.13±0.03          | 1.4±0.4      |

\*Not possible to determine precisely with current methodology.

| <u>Brown &amp; Williamson</u>   | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|---------------------------------|---------------|--------------------|--------------|
| Barclay KFHP                    | 0.9±0.2       | 0.15±0.03          | 1.2±0.2      |
| Barclay KFSP                    | 0.8±0.2       | 0.12±0.02          | 1.0±0.2      |
| Barclay KFMSF                   | 1.0±0.2       | 0.12±0.01          | 1.5±0.2      |
| Barclay 100FSP                  | 2.9±0.2       | 0.32±0.02          | 2.6±0.2      |
| Barclay 100FMSF                 | 2.9±0.2       | 0.30±0.02          | 2.7±0.2      |
| Belair KFMSF                    | 8.8±0.3       | 0.78±0.02          | 9.9±0.3      |
| Belair 100FMSF                  | 9.4±0.3       | 0.73±0.02          | 11.8±0.3     |
| DuMaurier KFHP                  | 16.8±0.8      | 1.15±0.06          | 18.8±0.7     |
| Kool RNFMSF                     | 18.7±0.6      | 1.12±0.04          | 14.5±0.5     |
| Kool KFMSF                      | 16.3±0.4      | 1.21±0.03          | 16.9±0.4     |
| Kool KFMSF                      | 17.0±0.4      | 1.23±0.03          | 15.8±0.5     |
| Kool Milds KFMSF                | 10.8±0.4      | 0.86±0.03          | 12.1±0.4     |
| Kool Milds 100FMSF              | 11.6±0.3      | 0.92±0.03          | 13.5±0.3     |
| Kool Lights KFMSF               | 8.9±0.2       | 0.74±0.02          | 10.2±0.4     |
| Kool Lights 100's 100FMSF       | 10.6±0.3      | 0.89±0.03          | 11.2±0.3     |
| Kool Super Lights KFMSF         | 6.3±0.3       | 0.55±0.02          | 6.8±0.4      |
| Kool Super Lights 100's 100FMSF | 9.5±0.3       | 0.72±0.03          | 12.0±0.4     |
| Kool Super Longs 100's 100FMSF  | 13.7±0.4      | 0.98±0.03          | 16.1±0.7     |
| Kool Ultra KFMSF                | 1.7±0.3       | 0.18±0.03          | 1.7±0.3      |
| Kool Ultra 100's 100FMSF        | 4.0±0.3       | 0.42±0.03          | 3.7±0.3      |
| Raleigh KNFSP                   | 23.4±0.6      | 1.37±0.04          | 17.6±0.6     |
| Raleigh KFSP                    | 15.2±0.4      | 0.99±0.03          | 17.6±0.4     |
| Raleigh 100's 100FSP            | 16.0±0.4      | 1.12±0.02          | 17.5±0.4     |
| Raleigh Lights KFSP             | 8.3±0.3       | 0.72±0.02          | 10.2±0.4     |
| Raleigh Lights 100's 100FSP     | 9.8±0.4       | 0.84±0.04          | 13.5±0.6     |
| Viceroy KFSP                    | 14.8±0.4      | 0.96±0.03          | 17.0±0.7     |
| Viceroy Rich Lights KFSP        | 8.5±0.2       | 0.73±0.02          | 10.7±0.4     |
| Viceroy Rich Lights 100FSP      | 9.4±0.3       | 0.80±0.02          | 12.8±0.4     |
| Viceroy Super Long 100's 100FSP | 14.8±0.4      | 1.08±0.03          | 17.8±0.5     |

| <u>Liggett Group</u>     | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|--------------------------|-----------------------------|----------------------------------|----------------------------|
| Chesterfield RNFSP       | 20.9±0.5                    | 1.42±0.04                        | 13.3±0.3                   |
| Chesterfield KNFSP       | 24.6±0.6                    | 1.75±0.05                        | 15.6±0.6                   |
| Chesterfield KFSP        | 14.9±0.4                    | 1.07±0.03                        | 15.1±0.4                   |
| Chesterfield 101 100FSP  | 14.7±0.4                    | 1.14±0.03                        | 16.7±0.5                   |
| Decade KFSP              | 5.0±0.2                     | 0.50±0.02                        | 4.9±0.3                    |
| Decade KFMSF             | 5.0±0.2                     | 0.49±0.02                        | 4.6±0.3                    |
| Decade 100's 100FSP      | 7.9±0.2                     | 0.84±0.02                        | 7.0±0.3                    |
| Eve Lights 100's 100FSP  | 12.5±0.4                    | 1.05±0.03                        | 13.6±0.5                   |
| Eve Lights 100's 100FMSP | 12.6±0.3                    | 1.03±0.03                        | 13.3±0.5                   |
| Eve Lights 120's 120FHP  | 13.5±0.5                    | 1.17±0.04                        | 11.4±0.6                   |
| Eve Lights 120's 120FMHP | 13.7±0.3                    | 1.19±0.03                        | 11.7±0.4                   |
| L & M KFHP               | 14.6±0.5                    | 1.06±0.04                        | 15.0±0.4                   |
| L & M KFSP               | 14.6±0.4                    | 1.07±0.03                        | 15.4±0.6                   |
| L & M 100FSP             | 14.5±0.4                    | 1.14±0.03                        | 16.4±0.4                   |
| L & M Lights KFSP        | 8.1±0.3                     | 0.83±0.02                        | 7.0±0.3                    |
| L & M Lights 100FSP      | 7.9±0.3                     | 0.85±0.03                        | 6.3±0.2                    |
| L & M Lights 100FMSP     | 7.7±0.2                     | 0.83±0.02                        | 6.1±0.3                    |
| Lark KFSP                | 14.9±0.4                    | 1.19±0.03                        | 14.1±0.4                   |
| Lark 100FSP              | 15.4±0.4                    | 1.30±0.04                        | 14.6±0.4                   |
| Lark Lights KFSP         | 13.7±0.4                    | 1.09±0.03                        | 13.3±0.4                   |
| Lark Lights 100's 100FSP | 14.4±0.4                    | 1.21±0.03                        | 13.9±0.4                   |
| Oasis KFMSF              | 14.8±0.2                    | 1.04±0.03                        | 14.9±0.3                   |
| Omni 100FMSP             | 7.1±0.2                     | 0.72±0.02                        | 6.6±0.2                    |
| Picayune RNFSP           | 17.1±0.6                    | 1.24±0.03                        | 14.0±0.6                   |
| St. Moritz 100FSP        | 14.3±0.3                    | 1.18±0.02                        | 14.4±0.4                   |
| St. Moritz 100FMSP       | 14.5±0.3                    | 1.21±0.03                        | 14.7±0.5                   |

| <u>Lorillard</u>             | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|------------------------------|-----------------------------|----------------------------------|----------------------------|
| Golden Lights KFSP           | 7.4±0.3                     | 0.72±0.03                        | 8.0±0.3                    |
| Golden Lights KFMSF          | 7.8±0.3                     | 0.74±0.02                        | 8.3±0.4                    |
| Golden Lights 100's 100FSP   | 8.0±0.3                     | 0.80±0.03                        | 8.2±0.5                    |
| Golden Lights 100's 100FMSP  | 7.2±0.4                     | 0.73±0.03                        | 7.5±0.5                    |
| Kent Micronite II KFHP       | 12.8±0.4                    | 1.00±0.03                        | 13.0±0.5                   |
| Kent Micronite II KFSP       | 12.2±0.3                    | 1.01±0.03                        | 12.3±0.4                   |
| Kent Micronite II 100FSP     | 14.2±0.4                    | 1.17±0.03                        | 13.6±0.5                   |
| Kent Micronite II 100FMSP    | 14.3±0.3                    | 1.26±0.03                        | 13.6±0.4                   |
| Kent III KFSP                | 2.4±0.1                     | 0.33±0.01                        | 2.8±0.2                    |
| Kent III 100FSP              | 4.2±0.2                     | 0.51±0.02                        | 6.2±0.2                    |
| Max 120FSP                   | 18.5±0.4                    | 1.58±0.05                        | 17.5±0.4                   |
| Max 120FMSP                  | 17.9±0.4                    | 1.54±0.02                        | 16.7±0.6                   |
| Newport KFMSF                | 15.8±0.3                    | 1.19±0.03                        | 16.3±0.5                   |
| Newport KFMSF                | 17.0±0.4                    | 1.30±0.04                        | 18.0±0.5                   |
| Newport 100FMSP              | 19.3±0.4                    | 1.54±0.05                        | 19.7±0.5                   |
| Newport Lights KFMSF         | 8.3±0.3                     | 0.74±0.02                        | 9.1±0.3                    |
| Newport Lights KFMSF         | 8.3±0.3                     | 0.74±0.03                        | 9.1±0.4                    |
| Newport Lights 100's 100FMSP | 8.7±0.3                     | 0.82±0.03                        | 9.2±0.4                    |
| Newport Red KFHP             | 12.8±0.2                    | 1.11±0.03                        | 14.2±0.3                   |
| Newport Red KFSP             | 13.1±0.3                    | 1.11±0.02                        | 14.8±0.4                   |
| Old Gold Straights KNFSP     | 26.9±0.6                    | 1.80±0.04                        | 18.2±0.5                   |
| Old Gold Filters KFSP        | 17.0±0.4                    | 1.37±0.04                        | 19.1±0.5                   |
| Old Gold Filter 100's 100FSP | 19.1±0.4                    | 1.58±0.04                        | 19.1±0.5                   |
| Old Gold Lights KFSP         | 8.9±0.4                     | 0.88±0.03                        | 10.0±0.5                   |
| Spring 100FMSP               | 19.2±0.4                    | 1.15±0.03                        | 17.5±0.7                   |
| Triumph KFSP                 | 2.2±0.1                     | 0.32±0.02                        | 2.5±0.2                    |
| Triumph KFMSF                | 2.6±0.1                     | 0.37±0.01                        | 3.1±0.2                    |
| Triumph 100s 100FSP          | 4.3±0.2                     | 0.54±0.02                        | 6.2±0.4                    |
| Triumph 100s 100FMSP         | 4.0±0.2                     | 0.50±0.02                        | 5.8±0.3                    |
| True KFSP                    | 4.3±0.2                     | 0.43±0.02                        | 4.9±0.2                    |
| True KFMSF                   | 5.0±0.2                     | 0.48±0.01                        | 5.4±0.2                    |
| True 100's 100FSP            | 7.1±0.3                     | 0.64±0.02                        | 8.8±0.4                    |
| True 100's 100FMSP           | 7.4±0.3                     | 0.65±0.02                        | 8.7±0.3                    |

| <u>Philip Morris</u>                 | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|--------------------------------------|---------------|--------------------|--------------|
| Alpine KFMSP                         | 14.1±0.3      | 0.92±0.03          | 14.1±0.4     |
| Benson & Hedges RFHP                 | 0.7±0.1       | 0.09±0.01          | 1.7±0.2      |
| Benson & Hedges KFHP                 | 15.3±0.5      | 1.24±0.04          | 12.8±0.4     |
| Benson & Hedges 100's 100FHP         | 15.9±0.5      | 1.13±0.04          | 15.5±0.5     |
| Benson & Hedges 100's 100FMHP        | 15.9±0.4      | 1.11±0.03          | 15.4±0.3     |
| Benson & Hedges 100's 100FSP         | 16.7±0.5      | 1.20±0.04          | 16.8±0.5     |
| Benson & Hedges 100's 100FMSP        | 16.2±0.4      | 1.19±0.03          | 16.5±0.4     |
| Benson & Hedges Lights 100's 100FHP  | 11.3±0.2      | 0.85±0.02          | 13.3±0.3     |
| Benson & Hedges Lights 100's 100FMHP | 10.5±0.3      | 0.85±0.03          | 12.1±0.5     |
| Benson & Hedges Lights 100's 100FSP  | 10.5±0.4      | 0.83±0.02          | 12.9±0.6     |
| Benson & Hedges Lights 100's 100FMSP | 10.0±0.3      | 0.74±0.07          | 11.6±0.4     |
| Benson & Hedges Multifilter KFSP     | 12.0±0.3      | 0.85±0.02          | 11.6±0.3     |
| Benson & Hedges Multifilter KFMSP    | 10.9±0.5      | 0.83±0.03          | 10.6±0.5     |
| Cambridge KFHP                       | *             | <0.02              | 0.1±0.04     |
| Cambridge KFSP                       | 0.6±0.1       | 0.10±0.01          | 1.3±0.1      |
| Cambridge 100's 100FSP               | 3.3±0.1       | 0.37±0.01          | 5.6±0.2      |
| English Ovals RNFHP                  | 21.7±0.5      | 1.77±0.06          | 12.1±0.4     |
| English Ovals KNFHP                  | 26.7±0.8      | 2.24±0.06          | 14.4±0.6     |
| Galaxy KFSP                          | 15.1±0.4      | 1.03±0.03          | 15.6±0.4     |
| Marlboro KFHP                        | 16.3±0.4      | 1.12±0.03          | 14.9±0.4     |
| Marlboro KFMHP                       | 14.8±0.5      | 0.96±0.02          | 14.3±0.3     |
| Marlboro KFSP                        | 16.8±0.5      | 1.15±0.03          | 15.7±0.4     |
| Marlboro KFMSP                       | 13.9±0.3      | 0.91±0.02          | 13.8±0.4     |
| Marlboro 100's 100FHP                | 16.5±0.4      | 1.18±0.03          | 17.1±0.5     |
| Marlboro 100's 100FSP                | 16.4±0.5      | 1.18±0.04          | 16.5±0.5     |
| Marlboro Lights KFHP                 | 10.2±0.3      | 0.76±0.02          | 11.8±0.3     |
| Marlboro Lights KFSP                 | 11.1±0.3      | 0.82±0.02          | 12.8±0.3     |
| Marlboro Lights 100's 100FSP         | 10.8±0.3      | 0.85±0.02          | 12.7±0.5     |
| Merit KFSP                           | 7.7±0.3       | 0.59±0.02          | 10.3±0.4     |
| Merit KFMSP                          | 7.5±0.3       | 0.58±0.02          | 10.0±0.3     |
| Merit 100's 100FSP                   | 9.6±0.3       | 0.74±0.02          | 12.1±0.4     |
| Merit 100's 100FMSP                  | 9.1±0.2       | 0.71±0.02          | 11.2±0.3     |
| Merit Ultra Lights KFSP              | 3.3±0.1       | 0.33±0.02          | 4.3±0.3      |
| Merit Ultra Lights KFMSP             | 3.3±0.2       | 0.33±0.01          | 4.1±0.2      |
| Northwind KFSP                       | 8.2±0.2       | 0.59±0.01          | 10.6±0.3     |
| Northwind 100's 100FSP               | 8.7±0.3       | 0.66±0.02          | 10.9±0.2     |
| Parliament Lights KFHP               | 9.0±0.3       | 0.69±0.02          | 9.6±0.3      |
| Parliament Lights KFSP               | 9.4±0.3       | 0.74±0.02          | 10.8±0.2     |
| Parliament Lights 100's 100FSP       | 11.2±0.3      | 0.92±0.03          | 11.3±0.3     |
| Philip Morris RNFSP                  | 21.7±0.7      | 1.44±0.06          | 12.9±0.5     |
| Philip Morris Commander KNFSP        | 26.9±0.7      | 1.83±0.05          | 16.1±0.6     |
| Philip Morris International 100FHP   | 17.3±0.3      | 1.20±0.03          | 16.1±0.3     |
| Philip Morris International 100FMHP  | 15.4±0.4      | 1.03±0.03          | 15.9±0.4     |
| Players RNFHP                        | 24.5±0.7      | 1.99±0.06          | 14.9±0.6     |
| Saratoga 120's 120FHP                | 14.0±0.5      | 1.02±0.06          | 15.5±0.7     |

\*Not possible to determine precisely with current methodology.

| <u>Philip Morris</u>          | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|-------------------------------|---------------|--------------------|--------------|
| Saratoga 120's 120FMHP        | 14.0±0.4      | 1.04±0.03          | 15.1±0.4     |
| Virginia Slims 100FSP         | 14.7±0.4      | 1.07±0.02          | 14.5±0.4     |
| Virginia Slims 100FMSP        | 14.6±0.2      | 1.04±0.02          | 13.5±0.3     |
| Virginia Slims Lights 100FHP  | 8.3±0.3       | 0.67±0.02          | 8.9±0.4      |
| Virginia Slims Lights 100FMHP | 7.8±0.3       | 0.66±0.02          | 8.4±0.3      |



| <u>R.J. Reynolds</u>              | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|-----------------------------------|-----------------------------|----------------------------------|----------------------------|
| Camel RNFSP                       | 20.6±0.4                    | 1.39±0.03                        | 13.0±0.3                   |
| Camel Filters KFSP                | 15.4±0.5                    | 1.11±0.03                        | 15.3±0.6                   |
| Camel Lights KFHP                 | 7.5±0.3                     | 0.73±0.03                        | 7.9±0.3                    |
| Camel Lights KFSP                 | 8.1±0.2                     | 0.75±0.02                        | 10.6±0.3                   |
| Camel Lights 100's 100FSP         | 11.5±0.3                    | 0.89±0.03                        | 14.5±0.3                   |
| Doral II KFSP                     | 4.1±0.2                     | 0.40±0.02                        | 3.9±0.2                    |
| Doral II KFMSF                    | 4.0±0.2                     | 0.41±0.02                        | 3.6±0.2                    |
| More Lights 100's 100FHP          | 8.4±0.2                     | 0.72±0.02                        | 9.5±0.2                    |
| More Lights 100's 100FMHP         | 7.2±0.3                     | 0.67±0.03                        | 9.1±0.4                    |
| More 120FSP                       | 16.7±0.5                    | 1.28±0.03                        | 20.7±0.6                   |
| More 120FMSP                      | 15.6±0.3                    | 1.31±0.03                        | 19.8±0.6                   |
| Now KFHP                          | *                           | <0.02                            | 0.1±0.03                   |
| Now KFSP                          | 0.9±0.1                     | 0.14±0.01                        | 1.7±0.1                    |
| Now KFMSF                         | 0.9±0.1                     | 0.13±0.01                        | 1.7±0.2                    |
| Now 100s 100FHP                   | *                           | <0.02                            | 0.1±0.03                   |
| Now 100s 100FSP                   | 1.8±0.1                     | 0.23±0.01                        | 1.8±0.1                    |
| Now 100s 100FMSP                  | 1.7±0.1                     | 0.22±0.01                        | 1.6±0.1                    |
| Salem KFMSF                       | 14.8±0.3                    | 1.10±0.03                        | 14.2±0.3                   |
| Salem 100's 100FMSP               | 14.7±0.3                    | 1.20±0.03                        | 13.7±0.3                   |
| Salem Lights KFMSF                | 8.4±0.2                     | 0.67±0.02                        | 10.7±0.3                   |
| Salem Lights 100's 100FMSP        | 8.9±0.2                     | 0.76±0.02                        | 11.4±0.3                   |
| Salem Ultra KFMSF                 | 4.2±0.2                     | 0.43±0.02                        | 4.9±0.2                    |
| Salem Ultra 100s 100FMSP          | 4.4±0.2                     | 0.44±0.02                        | 6.4±0.3                    |
| Vantage KFSP                      | 8.8±0.3                     | 0.71±0.02                        | 12.9±0.3                   |
| Vantage KFMSF                     | 8.6±0.2                     | 0.68±0.02                        | 12.8±0.3                   |
| Vantage 100s 100FSP               | 8.6±0.3                     | 0.71±0.02                        | 12.6±0.6                   |
| Vantage Ultra Lights KFSP         | 4.0±0.2                     | 0.41±0.02                        | 5.0±0.3                    |
| Vantage Ultra Lights 100s 100FSP  | 4.2±0.2                     | 0.48±0.02                        | 5.8±0.3                    |
| Winston KFHP                      | 16.3±0.4                    | 1.10±0.03                        | 15.6±0.6                   |
| Winston KFSP                      | 15.0±0.3                    | 1.07±0.02                        | 17.0±0.4                   |
| Winston 100's 100FSP              | 14.6±0.4                    | 1.06±0.02                        | 14.8±0.5                   |
| Winston Lights KFSP               | 10.4±0.2                    | 0.83±0.02                        | 11.2±0.3                   |
| Winston Light 100's 100FSP        | 11.9±0.4                    | 0.89±0.02                        | 15.2±0.5                   |
| Winston Ultra Lights KFSP         | 3.9±0.2                     | 0.42±0.02                        | 4.8±0.3                    |
| Winston Ultra Lights 100's 100FSP | 4.7±0.2                     | 0.46±0.02                        | 6.9±0.4                    |
| Winston International 100FHP      | 18.1±0.4                    | 1.40±0.03                        | 17.4±0.4                   |

\*Not possible to determine precisely with current methodology.

TAR NICOTINE AND CARBON MONOXIDE  
DATA ALPHABETICAL SUMMARY  
208 BRANDS

PM3000763245

| Brands                               | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|--------------------------------------|---------------|--------------------|--------------|
| Alpine KFMSP                         | 14.1±0.3      | 0.92±0.03          | 14.1±0.4     |
| Barclay KFHP                         | 0.9±0.2       | 0.15±0.03          | 1.2±0.2      |
| Barclay KFSP                         | 0.8±0.2       | 0.12±0.02          | 1.0±0.2      |
| Barclay KFMSP                        | 1.0±0.2       | 0.12±0.01          | 1.5±0.2      |
| Barclay 100FSP                       | 2.9±0.2       | 0.32±0.02          | 2.6±0.2      |
| Barclay 100FMSP                      | 2.9±0.2       | 0.30±0.02          | 2.7±0.2      |
| Belair KFMSP                         | 8.8±0.3       | 0.78±0.02          | 9.9±0.3      |
| Belair 100FMSP                       | 9.4±0.3       | 0.73±0.02          | 11.8±0.3     |
| Benson & Hedges RFHP                 | 0.7±0.1       | 0.09±0.01          | 1.7±0.2      |
| Benson & Hedges KFHP                 | 15.3±0.5      | 1.24±0.04          | 12.8±0.4     |
| Benson & Hedges 100's 100FHP         | 15.9±0.5      | 1.13±0.04          | 15.5±0.5     |
| Benson & Hedges 100's 100FMHP        | 15.9±0.4      | 1.11±0.03          | 15.4±0.3     |
| Benson & Hedges 100's 100FSP         | 16.7±0.5      | 1.20±0.04          | 16.8±0.5     |
| Benson & Hedges 100's 100FMSP        | 16.2±0.4      | 1.19±0.03          | 16.5±0.4     |
| Benson & Hedges Lights 100's 100FHP  | 11.3±0.2      | 0.85±0.02          | 13.3±0.3     |
| Benson & Hedges Lights 100's 100FMHP | 10.5±0.3      | 0.85±0.03          | 12.1±0.5     |
| Benson & Hedges Lights 100's 100FSP  | 10.5±0.4      | 0.83±0.02          | 12.9±0.6     |
| Benson & Hedges Lights 100's 100FMSP | 10.0±0.3      | 0.74±0.07          | 11.6±0.4     |
| Benson & Hedges Multifilter KFSP     | 12.0±0.3      | 0.85±0.02          | 11.6±0.3     |
| Benson & Hedges Multifilter KFMSP    | 10.9±0.5      | 0.83±0.03          | 10.6±0.5     |
| Bull Durham KFSP                     | 29.1±0.6      | 2.10±0.06          | 23.1±0.4     |
| Cambridge KFHP                       | *             | <0.02              | 0.1±0.04     |
| Cambridge KFSP                       | 0.6±0.1       | 0.10±0.01          | 1.3±0.1      |
| Cambridge 100's 100FSP               | 3.3±0.1       | 0.37±0.01          | 5.6±0.2      |
| Camel RNFSP                          | 20.6±0.4      | 1.39±0.03          | 13.0±0.3     |
| Camel Filters KFSP                   | 15.4±0.5      | 1.11±0.03          | 15.3±0.6     |
| Camel Lights KFHP                    | 7.5±0.3       | 0.73±0.03          | 7.9±0.3      |
| Camel Lights KFSP                    | 8.1±0.2       | 0.75±0.02          | 10.6±0.3     |
| Camel Lights 100's 100FSP            | 11.5±0.3      | 0.89±0.03          | 14.5±0.3     |
| Carlton KFHP                         | *             | <0.02              | 0.0±0.03     |
| Carlton KFSP                         | 0.8±0.1       | 0.12±0.01          | 1.8±0.1      |
| Carlton KFMSP                        | 0.4±0.1       | 0.09±0.01          | 1.1±0.1      |
| Carlton 100's 100FHP                 | 0.4±0.1       | 0.09±0.01          | 0.8±0.1      |
| Carlton 100's 100FMHP                | 0.6±0.1       | 0.10±0.02          | 0.8±0.2      |
| Carlton 100's 100FSP                 | 4.1±0.3       | 0.42±0.02          | 5.7±0.4      |
| Carlton 100's 100FMSP                | 4.1±0.3       | 0.43±0.03          | 5.6±0.5      |
| Carlton 120's 120FSP                 | 5.3±0.3       | 0.58±0.02          | 4.6±0.2      |
| Carlton 120's 120FMSP                | 5.9±0.3       | 0.66±0.03          | 5.2±0.2      |
| Chesterfield RNFSP                   | 20.9±0.5      | 1.42±0.04          | 13.3±0.3     |
| Chesterfield KNFSP                   | 24.6±0.6      | 1.75±0.05          | 15.6±0.6     |
| Chesterfield KFSP                    | 14.9±0.4      | 1.07±0.03          | 15.1±0.4     |
| Chesterfield 101 100FSP              | 14.7±0.4      | 1.14±0.03          | 16.7±0.5     |
| Decade KFSP                          | 5.0±0.2       | 0.50±0.02          | 4.9±0.3      |
| Decade KFMSP                         | 5.0±0.2       | 0.49±0.02          | 4.6±0.3      |
| Decade 100's 100FSP                  | 7.9±0.2       | 0.84±0.02          | 7.0±0.3      |

\*Not possible to determine precisely with current methodology.

| <u>Brands</u>                   | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|---------------------------------|-----------------------------|----------------------------------|----------------------------|
| Doral II KFSP                   | 4.1±0.2                     | 0.40±0.02                        | 3.9±0.2                    |
| Doral II KFMS                   | 4.0±0.2                     | 0.41±0.02                        | 3.6±0.2                    |
| DuMaurier KFHP                  | 16.8±0.8                    | 1.15±0.06                        | 18.8±0.7                   |
| English Ovals RNFHP             | 21.7±0.5                    | 1.77±0.06                        | 12.1±0.4                   |
| English Ovals KNFHP             | 26.7±0.8                    | 2.24±0.06                        | 14.4±0.6                   |
| Eve Lights 100's 100FSP         | 12.5±0.4                    | 1.05±0.03                        | 13.6±0.5                   |
| Eve Lights 100's 100FMSP        | 12.6±0.3                    | 1.03±0.03                        | 13.3±0.5                   |
| Eve Lights 120's 120FHP         | 13.5±0.5                    | 1.17±0.04                        | 11.4±0.6                   |
| Eve Lights 120's 120FMHP        | 13.7±0.3                    | 1.19±0.03                        | 11.7±0.4                   |
| Galaxy KFSP                     | 15.1±0.4                    | 1.03±0.03                        | 15.6±0.4                   |
| Golden Lights KFSP              | 7.4±0.3                     | 0.72±0.03                        | 8.0±0.3                    |
| Golden Lights KFMS              | 7.8±0.3                     | 0.74±0.02                        | 8.3±0.4                    |
| Golden Lights 100's 100FSP      | 8.0±0.3                     | 0.80±0.03                        | 8.2±0.5                    |
| Golden Lights 100's 100FMSP     | 7.2±0.4                     | 0.73±0.03                        | 7.5±0.5                    |
| Half & Half KFSP                | 17.8±0.5                    | 1.51±0.04                        | 16.9±0.4                   |
| Herbert Tareyton KNFSP          | 27.6±0.7                    | 1.94±0.05                        | 19.2±0.6                   |
| Iceberg 100's 100FMSP           | 2.5±0.1                     | 0.28±0.01                        | 3.6±0.2                    |
| Kent Micronite II KFHP          | 12.8±0.4                    | 1.00±0.03                        | 13.0±0.5                   |
| Kent Micronite II KFSP          | 12.2±0.3                    | 1.01±0.03                        | 12.3±0.4                   |
| Kent Micronite II 100FSP        | 14.2±0.4                    | 1.17±0.03                        | 13.6±0.5                   |
| Kent Micronite II 100FMSP       | 14.3±0.3                    | 1.26±0.03                        | 13.6±0.4                   |
| Kent III KFSP                   | 2.4±0.1                     | 0.33±0.01                        | 2.8±0.2                    |
| Kent III 100FSP                 | 4.2±0.2                     | 0.51±0.02                        | 6.2±0.2                    |
| Kool RNFMS                      | 18.7±0.6                    | 1.12±0.04                        | 14.5±0.5                   |
| Kool KFMS                       | 16.3±0.4                    | 1.21±0.03                        | 16.9±0.4                   |
| Kool KFMS                       | 17.0±0.4                    | 1.23±0.03                        | 15.8±0.5                   |
| Kool Milds KFMS                 | 10.8±0.4                    | 0.86±0.03                        | 12.1±0.4                   |
| Kool Milds 100FMSP              | 11.6±0.3                    | 0.92±0.03                        | 13.5±0.3                   |
| Kool Lights KFMS                | 8.9±0.2                     | 0.74±0.02                        | 10.2±0.4                   |
| Kool Lights 100's 100FMSP       | 10.6±0.3                    | 0.89±0.03                        | 11.2±0.3                   |
| Kool Super Lights KFMS          | 6.3±0.3                     | 0.55±0.02                        | 6.8±0.4                    |
| Kool Super Lights 100's 100FMSP | 9.5±0.3                     | 0.72±0.03                        | 12.0±0.4                   |
| Kool Super Longs 100's 100FMSP  | 13.7±0.4                    | 0.98±0.03                        | 16.1±0.7                   |
| Kool Ultra KFMS                 | 1.7±0.3                     | 0.18±0.03                        | 1.7±0.3                    |
| Kool Ultra 100's 100FMSP        | 4.0±0.3                     | 0.42±0.03                        | 3.7±0.3                    |
| L & M KFHP                      | 14.6±0.5                    | 1.06±0.04                        | 15.0±0.4                   |
| L & M KFSP                      | 14.6±0.4                    | 1.07±0.03                        | 15.4±0.6                   |
| L & M 100FSP                    | 14.5±0.4                    | 1.14±0.03                        | 16.4±0.4                   |
| L & M Lights KFSP               | 8.1±0.3                     | 0.83±0.02                        | 7.0±0.3                    |
| L & M Lights 100FSP             | 7.9±0.3                     | 0.85±0.03                        | 6.3±0.2                    |
| L & M Lights 100FMSP            | 7.7±0.2                     | 0.83±0.02                        | 6.1±0.3                    |
| Lark KFSP                       | 14.9±0.4                    | 1.19±0.03                        | 14.1±0.4                   |
| Lark 100FSP                     | 15.4±0.4                    | 1.30±0.04                        | 14.6±0.4                   |
| Lark Lights KFSP                | 13.7±0.4                    | 1.09±0.03                        | 13.3±0.4                   |
| Lark Lights 100's 100FSP        | 14.4±0.4                    | 1.21±0.03                        | 13.9±0.4                   |
| Long Johns 120FSP               | 18.7±0.5                    | 1.59±0.04                        | 19.8±0.8                   |
| Long Johns 120FMSP              | 15.9±0.5                    | 1.43±0.04                        | 17.9±0.9                   |

| Brands                       | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|------------------------------|---------------|--------------------|--------------|
| Lucky Strike RNFSP           | 24.5±0.6      | 1.56±0.03          | 16.9±0.4     |
| Lucky Ten KFSP               | 8.6±0.3       | 0.74±0.03          | 10.6±0.3     |
| Lucky 100's 100FSP           | 3.2±0.1       | 0.34±0.01          | 5.0±0.2      |
| Marlboro KFHP                | 16.3±0.4      | 1.12±0.03          | 14.9±0.4     |
| Marlboro KFMHP               | 14.8±0.5      | 0.96±0.02          | 14.3±0.3     |
| Marlboro KFSP                | 16.8±0.5      | 1.15±0.03          | 15.7±0.4     |
| Marlboro KFMSP               | 13.9±0.3      | 0.91±0.02          | 13.8±0.4     |
| Marlboro 100's 100FHP        | 16.5±0.4      | 1.18±0.03          | 17.1±0.5     |
| Marlboro 100's 100FSP        | 16.4±0.5      | 1.18±0.04          | 16.5±0.5     |
| Marlboro Lights KFHP         | 10.2±0.3      | 0.76±0.02          | 11.8±0.3     |
| Marlboro Lights KFSP         | 11.1±0.3      | 0.82±0.02          | 12.8±0.3     |
| Marlboro Lights 100's 100FSP | 10.8±0.3      | 0.85±0.02          | 12.7±0.5     |
| Max 120FSP                   | 18.5±0.4      | 1.58±0.05          | 17.5±0.4     |
| Max 120FMSP                  | 17.9±0.4      | 1.54±0.02          | 16.7±0.6     |
| Merit KFSP                   | 7.7±0.3       | 0.59±0.02          | 10.3±0.4     |
| Merit KFMSP                  | 7.5±0.3       | 0.58±0.02          | 10.0±0.3     |
| Merit 100's 100FSP           | 9.6±0.3       | 0.74±0.02          | 12.1±0.4     |
| Merit 100's 100FMSP          | 9.1±0.2       | 0.71±0.02          | 11.2±0.3     |
| Merit Ultra Lights KFSP      | 3.3±0.1       | 0.33±0.02          | 4.3±0.3      |
| Merit Ultra Lights KFMSP     | 3.3±0.2       | 0.33±0.01          | 4.1±0.2      |
| Montclair KFMSP              | 15.8±0.3      | 1.11±0.03          | 16.1±0.4     |
| More Lights 100's 100FHP     | 8.4±0.2       | 0.72±0.02          | 9.5±0.2      |
| More Lights 100's 100FMHP    | 7.2±0.3       | 0.67±0.03          | 9.1±0.4      |
| More 120FSP                  | 16.7±0.5      | 1.28±0.03          | 20.7±0.6     |
| More 120FMSP                 | 15.6±0.3      | 1.31±0.03          | 19.8±0.6     |
| Newport KFMHP                | 15.8±0.3      | 1.19±0.03          | 16.3±0.5     |
| Newport KFMSP                | 17.0±0.4      | 1.30±0.04          | 18.0±0.5     |
| Newport 100FMSP              | 19.3±0.4      | 1.54±0.05          | 19.7±0.5     |
| Newport Lights KFMHP         | 8.3±0.3       | 0.74±0.02          | 9.1±0.3      |
| Newport Lights KFSP          | 8.3±0.3       | 0.74±0.03          | 9.1±0.4      |
| Newport Lights 100's 100FMSP | 8.7±0.3       | 0.82±0.03          | 9.2±0.4      |
| Newport Red KFHP             | 12.8±0.2      | 1.11±0.03          | 14.2±0.3     |
| Newport Red KFSP             | 13.1±0.3      | 1.11±0.02          | 14.8±0.4     |
| Northwind KFSP               | 8.2±0.2       | 0.59±0.01          | 10.6±0.3     |
| Northwind 100's 100FSP       | 8.7±0.3       | 0.66±0.02          | 10.9±0.2     |
| Now KFHP                     | *             | <0.02              | 0.1±0.03     |
| Now KFSP                     | 0.9±0.1       | 0.14±0.01          | 1.7±0.1      |
| Now KFMSP                    | 0.9±0.1       | 0.13±0.01          | 1.7±0.2      |
| Now 100s 100FHP              | *             | <0.02              | 0.1±0.03     |
| Now 100s 100FSP              | 1.8±0.1       | 0.23±0.01          | 1.8±0.1      |
| Now 100s 100FMSP             | 1.7±0.1       | 0.22±0.01          | 1.6±0.1      |
| Oasis KFMSP                  | 14.8±0.2      | 1.04±0.03          | 14.9±0.3     |
| Old Gold Straights KNFSP     | 26.9±0.6      | 1.80±0.04          | 18.2±0.5     |
| Old Gold Filters KFSP        | 17.0±0.4      | 1.37±0.04          | 19.1±0.5     |
| Old Gold Filter 100's 100FSP | 19.1±0.4      | 1.58±0.04          | 19.1±0.5     |

\*Not possible to determine precisely with current methodology.

| Brands                              | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|-------------------------------------|---------------|--------------------|--------------|
| Old Gold Lights KFSP                | 8.9±0.4       | 0.88±0.03          | 10.0±0.5     |
| Omni 100FMSP                        | 7.1±0.2       | 0.72±0.02          | 6.6±0.2      |
| Pall Mall KNFSP                     | 24.8±0.6      | 1.70±0.04          | 17.4±0.4     |
| Pall Mall KFSP                      | 17.6±0.4      | 1.29±0.04          | 18.6±0.6     |
| Pall Mall 100FSP                    | 16.0±0.4      | 1.31±0.03          | 16.6±0.5     |
| Pall Mall Extra Light KFSP          | 6.4±0.2       | 0.64±0.02          | 7.2±0.2      |
| Pall Mall Light 100's 100FSP        | 9.0±0.3       | 0.86±0.02          | 8.5±0.3      |
| Pall Mall Light 100's 100FMSP       | 12.8±0.3      | 1.14±0.03          | 12.8±0.3     |
| Parliament Lights KFHP              | 9.0±0.3       | 0.69±0.02          | 9.6±0.3      |
| Parliament Lights KFSP              | 9.4±0.3       | 0.74±0.02          | 10.8±0.2     |
| Parliament Lights 100's 100FSP      | 11.2±0.3      | 0.92±0.03          | 11.3±0.3     |
| Philip Morris RNFSP                 | 21.7±0.7      | 1.44±0.06          | 12.9±0.5     |
| Philip Morris Commander KNFSP       | 26.9±0.7      | 1.83±0.05          | 16.1±0.6     |
| Philip Morris International 100FHP  | 17.3±0.3      | 1.20±0.03          | 16.1±0.3     |
| Philip Morris International 100FMHP | 15.4±0.4      | 1.03±0.03          | 15.9±0.4     |
| Picayune RNFSP                      | 17.1±0.6      | 1.24±0.03          | 14.0±0.6     |
| Players RNFHP                       | 24.5±0.7      | 1.99±0.06          | 14.9±0.6     |
| Raleigh KNFSP                       | 23.4±0.6      | 1.37±0.04          | 17.6±0.6     |
| Raleigh KFSP                        | 15.2±0.4      | 0.99±0.03          | 17.6±0.4     |
| Raleigh 100's 100FSP                | 16.0±0.4      | 1.12±0.02          | 17.5±0.4     |
| Raleigh Lights KFSP                 | 8.3±0.3       | 0.72±0.02          | 10.2±0.4     |
| Raleigh Lights 100's 100FSP         | 9.8±0.4       | 0.84±0.04          | 13.5±0.6     |
| St. Moritz 100FSP                   | 14.3±0.3      | 1.18±0.02          | 14.4±0.4     |
| St. Moritz 100FMSP                  | 14.5±0.3      | 1.21±0.03          | 14.7±0.5     |
| Salem KFMSF                         | 14.8±0.3      | 1.10±0.03          | 14.2±0.3     |
| Salem 100's 100FMSP                 | 14.7±0.3      | 1.20±0.03          | 13.7±0.3     |
| Salem Lights KFMSF                  | 8.4±0.2       | 0.67±0.02          | 10.7±0.3     |
| Salem Lights 100's 100FMSP          | 8.9±0.2       | 0.76±0.02          | 11.4±0.3     |
| Salem Ultra KFMSF                   | 4.2±0.2       | 0.43±0.02          | 4.9±0.2      |
| Salem Ultra 100s 100FMSP            | 4.4±0.2       | 0.44±0.02          | 6.4±0.3      |
| Saratoga 120's 120FHP               | 14.0±0.5      | 1.02±0.06          | 15.5±0.7     |
| Saratoga 120's 120FMHP              | 14.0±0.4      | 1.04±0.03          | 15.1±0.4     |
| Silva Thins 100's 100FSP            | 12.2±0.5      | 1.15±0.04          | 10.4±0.4     |
| Silva Thins 100's 100FMSP           | 11.9±0.5      | 1.14±0.05          | 10.2±0.4     |
| Spring 100FMSP                      | 19.2±0.4      | 1.15±0.03          | 17.5±0.7     |
| Tall 120s 120FSP                    | 18.2±0.5      | 1.60±0.04          | 20.1±0.4     |
| Tall 120s 120FMSP                   | 16.0±0.4      | 1.42±0.03          | 17.6±0.8     |
| Tareyton KFSP                       | 14.8±0.4      | 1.12±0.03          | 16.5±0.6     |
| Tareyton 100's 100FSP               | 14.3±0.4      | 1.15±0.03          | 17.1±0.6     |
| Tareyton Lights KFSP                | 4.4±0.3       | 0.42±0.02          | 5.1±0.3      |
| Tareyton Long Lights 100FSP         | 7.0±0.4       | 0.68±0.04          | 7.5±0.5      |
| Tareyton Ultra Low Tar KFMSF        | 1.0±0.3       | 0.13±0.03          | 1.4±0.4      |
| Triumph KFSP                        | 2.2±0.1       | 0.32±0.02          | 2.5±0.2      |
| Triumph KFMSF                       | 2.6±0.1       | 0.37±0.01          | 3.1±0.2      |
| Triumph 100s 100FSP                 | 4.3±0.2       | 0.54±0.02          | 6.2±0.4      |
| Triumph 100s 100FMSP                | 4.0±0.2       | 0.50±0.02          | 5.8±0.3      |
| True KFSP                           | 4.3±0.2       | 0.43±0.02          | 4.9±0.2      |

| <u>Brands</u>                     | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|-----------------------------------|-----------------------------|----------------------------------|----------------------------|
| True KFMSF                        | 5.0±0.2                     | 0.48±0.01                        | 5.4±0.2                    |
| True 100's 100FSP                 | 7.1±0.3                     | 0.64±0.02                        | 8.8±0.4                    |
| True 100's 100FMSP                | 7.4±0.3                     | 0.65±0.02                        | 8.7±0.3                    |
| Vantage KFSP                      | 8.8±0.3                     | 0.71±0.02                        | 12.9±0.3                   |
| Vantage KFMSF                     | 8.6±0.2                     | 0.68±0.02                        | 12.8±0.3                   |
| Vantage 100s 100FSP               | 8.6±0.3                     | 0.71±0.02                        | 12.6±0.6                   |
| Vantage Ultra Lights KFSP         | 4.0±0.2                     | 0.41±0.02                        | 5.0±0.3                    |
| Vantage Ultra Lights 100s 100FSP  | 4.2±0.2                     | 0.48±0.02                        | 5.8±0.3                    |
| Viceroy KFSP                      | 14.8±0.4                    | 0.96±0.03                        | 17.0±0.7                   |
| Viceroy Rich Lights KFSP          | 8.5±0.2                     | 0.73±0.02                        | 10.7±0.4                   |
| Viceroy Rich Lights 100FSP        | 9.4±0.3                     | 0.80±0.02                        | 12.8±0.4                   |
| Viceroy Super Long 100's 100FSP   | 14.8±0.4                    | 1.08±0.03                        | 17.8±0.5                   |
| Virginia Slims 100FSP             | 14.7±0.4                    | 1.07±0.02                        | 14.5±0.4                   |
| Virginia Slims 100FMSP            | 14.6±0.2                    | 1.04±0.02                        | 13.5±0.3                   |
| Virginia Slims Lights 100FHP      | 8.3±0.3                     | 0.67±0.02                        | 8.9±0.4                    |
| Virginia Slims Lights 100FMHP     | 7.8±0.3                     | 0.66±0.02                        | 8.4±0.3                    |
| Winston KFHP                      | 16.3±0.4                    | 1.10±0.03                        | 15.6±0.6                   |
| Winston KFSP                      | 15.0±0.3                    | 1.07±0.02                        | 17.0±0.4                   |
| Winston 100's 100FSP              | 14.6±0.4                    | 1.06±0.02                        | 14.8±0.5                   |
| Winston Lights KFSP               | 10.4±0.2                    | 0.83±0.02                        | 11.2±0.3                   |
| Winston Light 100's 100FSP        | 11.9±0.4                    | 0.89±0.02                        | 15.2±0.5                   |
| Winston Ultra Lights KFSP         | 3.9±0.2                     | 0.42±0.02                        | 4.8±0.3                    |
| Winston Ultra Lights 100's 100FSP | 4.7±0.2                     | 0.46±0.02                        | 6.9±0.4                    |
| Winston International 100FHP      | 18.1±0.4                    | 1.40±0.03                        | 17.4±0.4                   |

**T A R   R A N K I N G S**  
**2 0 8   B R A N D S**

PM3000763251



| Brands                            | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|-----------------------------------|---------------|--------------------|--------------|
| Cambridge KFHP*                   | -             | <0.02              | 0.1±0.04     |
| Carlton KFHP*                     | -             | <0.02              | 0.0±0.03     |
| Now KFHP*                         | -             | <0.02              | 0.1±0.03     |
| Now 100s 100FHP*                  | -             | <0.02              | 0.1±0.03     |
| Carlton KFMSp                     | 0.4±0.1       | 0.09±0.01          | 1.1±0.1      |
| Carlton 100's 100FHP              | 0.4±0.1       | 0.09±0.01          | 0.8±0.1      |
| Carlton 100's 100FMHP             | 0.6±0.1       | 0.10±0.02          | 0.8±0.2      |
| Cambridge KFSP                    | 0.6±0.1       | 0.10±0.01          | 1.3±0.1      |
| Benson & Hedges RFHP              | 0.7±0.1       | 0.09±0.01          | 1.7±0.2      |
| Barclay KFSP                      | 0.8±0.2       | 0.12±0.02          | 1.0±0.2      |
| Carlton KFSP                      | 0.8±0.1       | 0.12±0.01          | 1.8±0.1      |
| Now KFSP                          | 0.9±0.1       | 0.14±0.01          | 1.7±0.1      |
| Now KFMSp                         | 0.9±0.1       | 0.13±0.01          | 1.7±0.2      |
| Barclay KFHP                      | 0.9±0.2       | 0.15±0.03          | 1.2±0.2      |
| Tareyton Ultra Low Tar KFMSp      | 1.0±0.3       | 0.13±0.03          | 1.4±0.4      |
| Barclay KFMSp                     | 1.0±0.2       | 0.12±0.01          | 1.5±0.2      |
| Kool Ultra KFMSp                  | 1.7±0.3       | 0.18±0.03          | 1.7±0.3      |
| Now 100s 100FMSP                  | 1.7±0.1       | 0.22±0.01          | 1.6±0.1      |
| Now 100s 100FSP                   | 1.8±0.1       | 0.23±0.01          | 1.8±0.1      |
| Triumph KFSP                      | 2.2±0.1       | 0.32±0.02          | 2.5±0.2      |
| Kent III KFSP                     | 2.4±0.1       | 0.33±0.01          | 2.8±0.2      |
| Iceberg 100's 100FMSP             | 2.5±0.1       | 0.28±0.01          | 3.6±0.2      |
| Triumph KFMSp                     | 2.6±0.1       | 0.37±0.01          | 3.1±0.2      |
| Barclay 100FMSP                   | 2.9±0.2       | 0.30±0.02          | 2.7±0.2      |
| Barclay 100FSP                    | 2.9±0.2       | 0.32±0.02          | 2.6±0.2      |
| Lucky 100's 100FSP                | 3.2±0.1       | 0.34±0.01          | 5.0±0.2      |
| Cambridge 100's 100FSP            | 3.3±0.1       | 0.37±0.01          | 5.6±0.2      |
| Merit Ultra Lights KFMSp          | 3.3±0.2       | 0.33±0.01          | 4.1±0.2      |
| Merit Ultra Lights KFSP           | 3.3±0.1       | 0.33±0.02          | 4.3±0.3      |
| Winston Ultra Lights KFSP         | 3.9±0.2       | 0.42±0.02          | 4.8±0.3      |
| Triumph 100s 100FMSP              | 4.0±0.2       | 0.50±0.02          | 5.8±0.3      |
| Kool Ultra 100's 100FMSP          | 4.0±0.3       | 0.42±0.03          | 3.7±0.3      |
| Vantage Ultra Lights KFSP         | 4.0±0.2       | 0.41±0.02          | 5.0±0.3      |
| Doral II KFMSp                    | 4.0±0.2       | 0.41±0.02          | 3.6±0.2      |
| Carlton 100's 100FSP              | 4.1±0.3       | 0.42±0.02          | 5.7±0.4      |
| Doral II KFSP                     | 4.1±0.2       | 0.40±0.02          | 3.9±0.2      |
| Carlton 100's 100FMSP             | 4.1±0.3       | 0.43±0.03          | 5.6±0.5      |
| Salem Ultra KFMSp                 | 4.2±0.2       | 0.43±0.02          | 4.9±0.2      |
| Vantage Ultra Lights 100s 100FSP  | 4.2±0.2       | 0.48±0.02          | 5.8±0.3      |
| Kent III 100FSP                   | 4.2±0.2       | 0.51±0.02          | 6.2±0.2      |
| True KFSP                         | 4.3±0.2       | 0.43±0.02          | 4.9±0.2      |
| Triumph 100s 100FSP               | 4.3±0.2       | 0.54±0.02          | 6.2±0.4      |
| Salem Ultra 100s 100FMSP          | 4.4±0.2       | 0.44±0.02          | 6.4±0.3      |
| Tareyton Lights KFSP              | 4.4±0.3       | 0.42±0.02          | 5.1±0.3      |
| Winston Ultra Lights 100's 100FSP | 4.7±0.2       | 0.46±0.02          | 6.9±0.4      |

\*Not possible to rank. Listed alphabetically.

| <u>Brands</u>                 | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|-------------------------------|-----------------------------|----------------------------------|----------------------------|
| True KFMSF                    | 5.0±0.2                     | 0.48±0.01                        | 5.4±0.2                    |
| Decade KFMSF                  | 5.0±0.2                     | 0.49±0.02                        | 4.6±0.3                    |
| Decade KFSP                   | 5.0±0.2                     | 0.50±0.02                        | 4.9±0.3                    |
| Carlton 120's 120FSP          | 5.3±0.3                     | 0.58±0.02                        | 4.6±0.2                    |
| Carlton 120's 120FMSP         | 5.9±0.3                     | 0.66±0.03                        | 5.2±0.2                    |
| Kool Super Lights KFMSF       | 6.3±0.3                     | 0.55±0.02                        | 6.8±0.4                    |
| Pall Mall Extra Light KFSP    | 6.4±0.2                     | 0.64±0.02                        | 7.2±0.2                    |
| Tareyton Long Lights 100FSP   | 7.0±0.4                     | 0.68±0.04                        | 7.5±0.5                    |
| True 100's 100FSP             | 7.1±0.3                     | 0.64±0.02                        | 8.8±0.4                    |
| Omni 100FMSP                  | 7.1±0.2                     | 0.72±0.02                        | 6.6±0.2                    |
| More Lights 100's 100FMHP     | 7.2±0.3                     | 0.67±0.03                        | 9.1±0.4                    |
| Golden Lights 100's 100FMSP   | 7.2±0.4                     | 0.73±0.03                        | 7.5±0.5                    |
| True 100's 100FMSP            | 7.4±0.3                     | 0.65±0.02                        | 8.7±0.3                    |
| Golden Lights KFSP            | 7.4±0.3                     | 0.72±0.03                        | 8.0±0.3                    |
| Merit KFMSF                   | 7.5±0.3                     | 0.58±0.02                        | 10.0±0.3                   |
| Camel Lights KFHP             | 7.5±0.3                     | 0.73±0.03                        | 7.9±0.3                    |
| L & M Lights 100FMSP          | 7.7±0.2                     | 0.83±0.02                        | 6.1±0.3                    |
| Merit KFSP                    | 7.7±0.3                     | 0.59±0.02                        | 10.3±0.4                   |
| Golden Lights KFMSF           | 7.8±0.3                     | 0.74±0.02                        | 8.3±0.4                    |
| Virginia Slims Lights 100FMHP | 7.8±0.3                     | 0.66±0.02                        | 8.4±0.3                    |
| L & M Lights 100FSP           | 7.9±0.3                     | 0.85±0.03                        | 6.3±0.2                    |
| Decade 100's 100FSP           | 7.9±0.2                     | 0.84±0.02                        | 7.0±0.3                    |
| Golden Lights 100's 100FSP    | 8.0±0.3                     | 0.80±0.03                        | 8.2±0.5                    |
| Camel Lights KFSP             | 8.1±0.2                     | 0.75±0.02                        | 10.6±0.3                   |
| L & M Lights KFSP             | 8.1±0.3                     | 0.83±0.02                        | 7.0±0.3                    |
| Northwind KFSP                | 8.2±0.2                     | 0.59±0.01                        | 10.6±0.3                   |
| Virginia Slims Lights 100FHP  | 8.3±0.3                     | 0.67±0.02                        | 8.9±0.4                    |
| Newport Lights KFMSF          | 8.3±0.3                     | 0.74±0.03                        | 9.1±0.4                    |
| Newport Lights KFMSF          | 8.3±0.3                     | 0.74±0.02                        | 9.1±0.3                    |
| Raleigh Lights KFSP           | 8.3±0.3                     | 0.72±0.02                        | 10.2±0.4                   |
| Salem Lights KFMSF            | 8.4±0.2                     | 0.67±0.02                        | 10.7±0.3                   |
| More Lights 100's 100FHP      | 8.4±0.2                     | 0.72±0.02                        | 9.5±0.2                    |
| Viceroy Rich Lights KFSP      | 8.5±0.2                     | 0.73±0.02                        | 10.7±0.4                   |
| Vantage 100s 100FSP           | 8.6±0.3                     | 0.71±0.02                        | 12.6±0.6                   |
| Vantage KFMSF                 | 8.6±0.2                     | 0.68±0.02                        | 12.8±0.3                   |
| Lucky Ten KFSP                | 8.6±0.3                     | 0.74±0.03                        | 10.6±0.3                   |
| Newport Lights 100's 100FMSP  | 8.7±0.3                     | 0.82±0.03                        | 9.2±0.4                    |
| Northwind 100's 100FSP        | 8.7±0.3                     | 0.66±0.02                        | 10.9±0.2                   |
| Belair KFMSF                  | 8.8±0.3                     | 0.78±0.02                        | 9.9±0.3                    |
| Vantage KFSP                  | 8.8±0.3                     | 0.71±0.02                        | 12.9±0.3                   |
| Kool Lights KFMSF             | 8.9±0.2                     | 0.74±0.02                        | 10.2±0.4                   |
| Old Gold Lights KFSP          | 8.9±0.4                     | 0.88±0.03                        | 10.0±0.5                   |
| Salem Lights 100's 100FMSP    | 8.9±0.2                     | 0.76±0.02                        | 11.4±0.3                   |
| Pall Mall Light 100's 100FSP  | 9.0±0.3                     | 0.86±0.02                        | 8.5±0.3                    |
| Parliament Lights KFHP        | 9.0±0.3                     | 0.69±0.02                        | 9.6±0.3                    |
| Merit 100's 100FMSP           | 9.1±0.2                     | 0.71±0.02                        | 11.2±0.3                   |
| Viceroy Rich Lights 100FSP    | 9.4±0.3                     | 0.80±0.02                        | 12.8±0.4                   |

| Brands                               | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|--------------------------------------|---------------|--------------------|--------------|
| Parliament Lights KFSP               | 9.4±0.3       | 0.74±0.02          | 10.8±0.2     |
| Belair 100FMSP                       | 9.4±0.3       | 0.73±0.02          | 11.8±0.3     |
| Kool Super Lights 100's 100FMSP      | 9.5±0.3       | 0.72±0.03          | 12.0±0.4     |
| Merit 100's 100FSP                   | 9.6±0.3       | 0.74±0.02          | 12.1±0.4     |
| Raleigh Lights 100's 100FSP          | 9.8±0.4       | 0.84±0.04          | 13.5±0.6     |
| Benson & Hedges Lights 100's 100FMSP | 10.0±0.3      | 0.74±0.07          | 11.6±0.4     |
| Marlboro Lights KFHP                 | 10.2±0.3      | 0.76±0.02          | 11.8±0.3     |
| Winston Lights KFSP                  | 10.4±0.2      | 0.83±0.02          | 11.2±0.3     |
| Benson & Hedges Lights 100's 100FMHP | 10.5±0.3      | 0.85±0.03          | 12.1±0.5     |
| Benson & Hedges Lights 100's 100FSP  | 10.5±0.4      | 0.83±0.02          | 12.9±0.6     |
| Kool Lights 100's 100FMSP            | 10.6±0.3      | 0.89±0.03          | 11.2±0.3     |
| Marlboro Lights 100's 100FSP         | 10.8±0.3      | 0.85±0.02          | 12.7±0.5     |
| Kool Milds KFMSF                     | 10.8±0.4      | 0.86±0.03          | 12.1±0.4     |
| Benson & Hedges Multifilter KFMSF    | 10.9±0.5      | 0.83±0.03          | 10.6±0.5     |
| Marlboro Lights KFSP                 | 11.1±0.3      | 0.82±0.02          | 12.8±0.3     |
| Parliament Lights 100's 100FSP       | 11.2±0.3      | 0.92±0.03          | 11.3±0.3     |
| Benson & Hedges Lights 100's 100FHP  | 11.3±0.2      | 0.85±0.02          | 13.3±0.3     |
| Camel Lights 100's 100FSP            | 11.5±0.3      | 0.89±0.03          | 14.5±0.3     |
| Kool Milds 100FMSP                   | 11.6±0.3      | 0.92±0.03          | 13.5±0.3     |
| Winston Light 100's 100FSP           | 11.9±0.4      | 0.89±0.02          | 15.2±0.5     |
| Silva Thins 100's 100FMSP            | 11.9±0.5      | 1.14±0.05          | 10.2±0.4     |
| Benson & Hedges Multifilter KFSP     | 12.0±0.3      | 0.85±0.02          | 11.6±0.3     |
| Silva Thins 100's 100FSP             | 12.2±0.5      | 1.15±0.04          | 10.4±0.4     |
| Kent Micronite II KFSP               | 12.2±0.3      | 1.01±0.03          | 12.3±0.4     |
| Eve Lights 100's 100FSP              | 12.5±0.4      | 1.05±0.03          | 13.6±0.5     |
| Eve Lights 100's 100FMSP             | 12.6±0.3      | 1.03±0.03          | 13.3±0.5     |
| Pall Mall Light 100's 100FMSP        | 12.8±0.3      | 1.14±0.03          | 12.8±0.3     |
| Kent Micronite II KFHP               | 12.8±0.4      | 1.00±0.03          | 13.0±0.5     |
| Newport Red KFHP                     | 12.8±0.2      | 1.11±0.03          | 14.2±0.3     |
| Newport Red KFSP                     | 13.1±0.3      | 1.11±0.02          | 14.8±0.4     |
| Eve Lights 120's 120FHP              | 13.5±0.5      | 1.17±0.04          | 11.4±0.6     |
| Lark Lights KFSP                     | 13.7±0.4      | 1.09±0.03          | 13.3±0.4     |
| Eve Lights 120's 120FMHP             | 13.7±0.3      | 1.19±0.03          | 11.7±0.4     |
| Kool Super Longs 100's 100FMSP       | 13.7±0.4      | 0.98±0.03          | 16.1±0.7     |
| Marlboro KFMSF                       | 13.9±0.3      | 0.91±0.02          | 13.8±0.4     |
| Saratoga 120's 120FMHP               | 14.0±0.4      | 1.04±0.03          | 15.1±0.4     |
| Saratoga 120's 120FHP                | 14.0±0.5      | 1.02±0.06          | 15.5±0.7     |
| Alpine KFMSF                         | 14.1±0.3      | 0.92±0.03          | 14.1±0.4     |
| Kent Micronite II 100FSP             | 14.2±0.4      | 1.17±0.03          | 13.6±0.5     |
| Kent Micronite II 100FMSP            | 14.3±0.3      | 1.26±0.03          | 13.6±0.4     |
| St. Moritz 100FSP                    | 14.3±0.3      | 1.18±0.02          | 14.4±0.4     |
| Tareyton 100's 100FSP                | 14.3±0.4      | 1.15±0.03          | 17.1±0.6     |
| Lark Lights 100's 100FSP             | 14.4±0.4      | 1.21±0.03          | 13.9±0.4     |
| St. Moritz 100FMSP                   | 14.5±0.3      | 1.21±0.03          | 14.7±0.5     |
| L & M 100FSP                         | 14.5±0.4      | 1.14±0.03          | 16.4±0.4     |
| L & M KFSP                           | 14.6±0.4      | 1.07±0.03          | 15.4±0.6     |
| Winston 100's 100FSP                 | 14.6±0.4      | 1.06±0.02          | 14.8±0.5     |

| Brands                               | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|--------------------------------------|---------------|--------------------|--------------|
| Alpine KFMSF                         | 14.1±0.3      | 0.92±0.03          | 14.1±0.4     |
| Barclay KFHP                         | 0.9±0.2       | 0.15±0.03          | 1.2±0.2      |
| Barclay KFSP                         | 0.8±0.2       | 0.12±0.02          | 1.0±0.2      |
| Barclay KFMSF                        | 1.0±0.2       | 0.12±0.01          | 1.5±0.2      |
| Barclay 100FSP                       | 2.9±0.2       | 0.32±0.02          | 2.6±0.2      |
| Barclay 100FMSF                      | 2.9±0.2       | 0.30±0.02          | 2.7±0.2      |
| Belair KFMSF                         | 8.8±0.3       | 0.78±0.02          | 9.9±0.3      |
| Belair 100FMSF                       | 9.4±0.3       | 0.73±0.02          | 11.8±0.3     |
| Benson & Hedges RFHP                 | 0.7±0.1       | 0.09±0.01          | 1.7±0.2      |
| Benson & Hedges KFHP                 | 15.3±0.5      | 1.24±0.04          | 12.8±0.4     |
| Benson & Hedges 100's 100FHP         | 15.9±0.5      | 1.13±0.04          | 15.5±0.5     |
| Benson & Hedges 100's 100FMHP        | 15.9±0.4      | 1.11±0.03          | 15.4±0.3     |
| Benson & Hedges 100's 100FSP         | 16.7±0.5      | 1.20±0.04          | 16.8±0.5     |
| Benson & Hedges 100's 100FMSF        | 16.2±0.4      | 1.19±0.03          | 16.5±0.4     |
| Benson & Hedges Lights 100's 100FHP  | 11.3±0.2      | 0.85±0.02          | 13.3±0.3     |
| Benson & Hedges Lights 100's 100FMHP | 10.5±0.3      | 0.85±0.03          | 12.1±0.5     |
| Benson & Hedges Lights 100's 100FSP  | 10.5±0.4      | 0.83±0.02          | 12.9±0.6     |
| Benson & Hedges Lights 100's 100FMSF | 10.0±0.3      | 0.74±0.07          | 11.6±0.4     |
| Benson & Hedges Multifilter KFSP     | 12.0±0.3      | 0.85±0.02          | 11.6±0.3     |
| Benson & Hedges Multifilter KFMSF    | 10.9±0.5      | 0.83±0.03          | 10.6±0.5     |
| Bull Durham KFSP                     | 29.1±0.6      | 2.10±0.06          | 23.1±0.4     |
| Cambridge KFHP                       | *             | >0.02              | 0.1±0.04     |
| Cambridge KFSP                       | 0.6±0.1       | 0.10±0.01          | 1.3±0.1      |
| Cambridge 100's 100FSP               | 3.3±0.1       | 0.37±0.01          | 5.6±0.2      |
| Camel RNFSP                          | 20.6±0.4      | 1.39±0.03          | 13.0±0.3     |
| Camel Filters KFSP                   | 15.4±0.5      | 1.11±0.03          | 15.3±0.6     |
| Camel Lights KFHP                    | 7.5±0.3       | 0.73±0.03          | 7.9±0.3      |
| Camel Lights KFSP                    | 8.1±0.2       | 0.75±0.02          | 10.6±0.3     |
| Camel Lights 100's 100FSP            | 11.5±0.3      | 0.89±0.03          | 14.5±0.3     |
| Carlton KFHP                         | *             | >0.02              | 0.0±0.03     |
| Carlton KFSP                         | 0.8±0.1       | 0.12±0.01          | 1.8±0.1      |
| Carlton KFMSF                        | 0.4±0.1       | 0.09±0.01          | 1.1±0.1      |
| Carlton 100's 100FHP                 | 0.4±0.1       | 0.09±0.01          | 0.8±0.1      |
| Carlton 100's 100FMHP                | 0.6±0.1       | 0.10±0.02          | 0.8±0.2      |
| Carlton 100's 100FSP                 | 4.1±0.3       | 0.42±0.02          | 5.7±0.4      |
| Carlton 100's 100FMSF                | 4.1±0.3       | 0.43±0.03          | 5.6±0.5      |
| Carlton 120's 120FSP                 | 5.3±0.3       | 0.58±0.02          | 4.6±0.2      |
| Carlton 120's 120FMSF                | 5.9±0.3       | 0.66±0.03          | 5.2±0.2      |
| Chesterfield RNFSP                   | 20.9±0.5      | 1.42±0.04          | 13.3±0.3     |
| Chesterfield KNFSP                   | 24.6±0.6      | 1.75±0.05          | 15.6±0.6     |
| Chesterfield KFSP                    | 14.9±0.4      | 1.07±0.03          | 15.1±0.4     |
| Chesterfield 101 100FSP              | 14.7±0.4      | 1.14±0.03          | 16.7±0.5     |
| Decade KFSP                          | 5.0±0.2       | 0.50±0.02          | 4.9±0.3      |
| Decade KFMSF                         | 5.0±0.2       | 0.49±0.02          | 4.6±0.3      |
| Decade 100's 100FSP                  | 7.9±0.2       | 0.84±0.02          | 7.0±0.3      |

\*Not possible to determine precisely with current methodology.

| Brands                          | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|---------------------------------|---------------|--------------------|--------------|
| Doral II KFSP                   | 4.1±0.2       | 0.40±0.02          | 3.9±0.2      |
| Doral II KFMS                   | 4.0±0.2       | 0.41±0.02          | 3.6±0.2      |
| DuMaurier KFHP                  | 16.8±0.8      | 1.15±0.06          | 18.8±0.7     |
| English Ovals RNFHP             | 21.7±0.5      | 1.77±0.06          | 12.1±0.4     |
| English Ovals KNFHP             | 26.7±0.8      | 2.24±0.06          | 14.4±0.6     |
| Eve Lights 100's 100FSP         | 12.5±0.4      | 1.05±0.03          | 13.6±0.5     |
| Eve Lights 100's 100FMSP        | 12.6±0.3      | 1.03±0.03          | 13.3±0.5     |
| Eve Lights 120's 120FHP         | 13.5±0.5      | 1.17±0.04          | 11.4±0.6     |
| Eve Lights 120's 120FMHP        | 13.7±0.3      | 1.19±0.03          | 11.7±0.4     |
| Galaxy KFSP                     | 15.1±0.4      | 1.03±0.03          | 15.6±0.4     |
| Golden Lights KFSP              | 7.4±0.3       | 0.72±0.03          | 8.0±0.3      |
| Golden Lights KFMS              | 7.8±0.3       | 0.74±0.02          | 8.3±0.4      |
| Golden Lights 100's 100FSP      | 8.0±0.3       | 0.80±0.03          | 8.2±0.5      |
| Golden Lights 100's 100FMSP     | 7.2±0.4       | 0.73±0.03          | 7.5±0.5      |
| Half & Half KFSP                | 17.8±0.5      | 1.51±0.04          | 16.9±0.4     |
| Herbert Tareyton KNFSP          | 27.6±0.7      | 1.94±0.05          | 19.2±0.6     |
| Iceberg 100's 100FMSP           | 2.5±0.1       | 0.28±0.01          | 3.6±0.2      |
| Kent Micronite II KFHP          | 12.8±0.4      | 1.00±0.03          | 13.0±0.5     |
| Kent Micronite II KFSP          | 12.2±0.3      | 1.01±0.03          | 12.3±0.4     |
| Kent Micronite II 100FSP        | 14.2±0.4      | 1.17±0.03          | 13.6±0.5     |
| Kent Micronite II 100FMSP       | 14.3±0.3      | 1.26±0.03          | 13.6±0.4     |
| Kent III KFSP                   | 2.4±0.1       | 0.33±0.01          | 2.8±0.2      |
| Kent III 100FSP                 | 4.2±0.2       | 0.51±0.02          | 6.2±0.2      |
| Kool RNFMS                      | 18.7±0.6      | 1.12±0.04          | 14.5±0.5     |
| Kool KFMS                       | 16.3±0.4      | 1.21±0.03          | 16.9±0.4     |
| Kool KFMS                       | 17.0±0.4      | 1.23±0.03          | 15.8±0.5     |
| Kool Milds KFMS                 | 10.8±0.4      | 0.86±0.03          | 12.1±0.4     |
| Kool Milds 100FMSP              | 11.6±0.3      | 0.92±0.03          | 13.5±0.3     |
| Kool Lights KFMS                | 8.9±0.2       | 0.74±0.02          | 10.2±0.4     |
| Kool Lights 100's 100FMSP       | 10.6±0.3      | 0.89±0.03          | 11.2±0.3     |
| Kool Super Lights KFMS          | 6.3±0.3       | 0.55±0.02          | 6.8±0.4      |
| Kool Super Lights 100's 100FMSP | 9.5±0.3       | 0.72±0.03          | 12.0±0.4     |
| Kool Super Longs 100's 100FMSP  | 13.7±0.4      | 0.98±0.03          | 16.1±0.7     |
| Kool Ultra KFMS                 | 1.7±0.3       | 0.18±0.03          | 1.7±0.3      |
| Kool Ultra 100's 100FMSP        | 4.0±0.3       | 0.42±0.03          | 3.7±0.3      |
| L & M KFHP                      | 14.6±0.5      | 1.06±0.04          | 15.0±0.4     |
| L & M KFSP                      | 14.6±0.4      | 1.07±0.03          | 15.4±0.6     |
| L & M 100FSP                    | 14.5±0.4      | 1.14±0.03          | 16.4±0.4     |
| L & M Lights KFSP               | 8.1±0.3       | 0.83±0.02          | 7.0±0.3      |
| L & M Lights 100FSP             | 7.9±0.3       | 0.85±0.03          | 6.3±0.2      |
| L & M Lights 100FMSP            | 7.7±0.2       | 0.83±0.02          | 6.1±0.3      |
| Lark KFSP                       | 14.9±0.4      | 1.19±0.03          | 14.1±0.4     |
| Lark 100FSP                     | 15.4±0.4      | 1.30±0.04          | 14.6±0.4     |
| Lark Lights KFSP                | 13.7±0.4      | 1.09±0.03          | 13.3±0.4     |
| Lark Lights 100's 100FSP        | 14.4±0.4      | 1.21±0.03          | 13.9±0.4     |
| Long Johns 120FSP               | 18.7±0.5      | 1.59±0.04          | 19.8±0.8     |
| Long Johns 120FMSP              | 15.9±0.5      | 1.43±0.04          | 17.9±0.9     |

| Brands                       | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|------------------------------|---------------|--------------------|--------------|
| Lucky Strike RNFSP           | 24.5±0.6      | 1.56±0.03          | 16.9±0.4     |
| Lucky Ten KFSP               | 8.6±0.3       | 0.74±0.03          | 10.6±0.3     |
| Lucky 100's 100FSP           | 3.2±0.1       | 0.34±0.01          | 5.0±0.2      |
| Marlboro KFHP                | 16.3±0.4      | 1.12±0.03          | 14.9±0.4     |
| Marlboro KFMHP               | 14.8±0.5      | 0.96±0.02          | 14.3±0.3     |
| Marlboro KFSP                | 16.8±0.5      | 1.15±0.03          | 15.7±0.4     |
| Marlboro KFMSP               | 13.9±0.3      | 0.91±0.02          | 13.8±0.4     |
| Marlboro 100's 100FHP        | 16.5±0.4      | 1.18±0.03          | 17.1±0.5     |
| Marlboro 100's 100FSP        | 16.4±0.5      | 1.18±0.04          | 16.5±0.5     |
| Marlboro Lights KFHP         | 10.2±0.3      | 0.76±0.02          | 11.8±0.3     |
| Marlboro Lights KFSP         | 11.1±0.3      | 0.82±0.02          | 12.8±0.3     |
| Marlboro Lights 100's 100FSP | 10.8±0.3      | 0.85±0.02          | 12.7±0.5     |
| Max 120FSP                   | 18.5±0.4      | 1.58±0.05          | 17.5±0.4     |
| Max 120FMSP                  | 17.9±0.4      | 1.54±0.02          | 16.7±0.6     |
| Merit KFSP                   | 7.7±0.3       | 0.59±0.02          | 10.3±0.4     |
| Merit KFMSP                  | 7.5±0.3       | 0.58±0.02          | 10.0±0.3     |
| Merit 100's 100FSP           | 9.6±0.3       | 0.74±0.02          | 12.1±0.4     |
| Merit 100's 100FMSP          | 9.1±0.2       | 0.71±0.02          | 11.2±0.3     |
| Merit Ultra Lights KFSP      | 3.3±0.1       | 0.33±0.02          | 4.3±0.3      |
| Merit Ultra Lights KFMSP     | 3.3±0.2       | 0.33±0.01          | 4.1±0.2      |
| Montclair KFMSP              | 15.8±0.3      | 1.11±0.03          | 16.1±0.4     |
| More Lights 100's 100FHP     | 8.4±0.2       | 0.72±0.02          | 9.5±0.2      |
| More Lights 100's 100FMHP    | 7.2±0.3       | 0.67±0.03          | 9.1±0.4      |
| More 120FSP                  | 16.7±0.5      | 1.28±0.03          | 20.7±0.6     |
| More 120FMSP                 | 15.6±0.3      | 1.31±0.03          | 19.8±0.6     |
| Newport KFMHP                | 15.8±0.3      | 1.19±0.03          | 16.3±0.5     |
| Newport KFMSP                | 17.0±0.4      | 1.30±0.04          | 18.0±0.5     |
| Newport 100FMSP              | 19.3±0.4      | 1.54±0.05          | 19.7±0.5     |
| Newport Lights KFMHP         | 8.3±0.3       | 0.74±0.02          | 9.1±0.3      |
| Newport Lights KFMSP         | 8.3±0.3       | 0.74±0.03          | 9.1±0.4      |
| Newport Lights 100's 100FMSP | 8.7±0.3       | 0.82±0.03          | 9.2±0.4      |
| Newport Red KFHP             | 12.8±0.2      | 1.11±0.03          | 14.2±0.3     |
| Newport Red KFSP             | 13.1±0.3      | 1.11±0.02          | 14.8±0.4     |
| Northwind KFSP               | 8.2±0.2       | 0.59±0.01          | 10.6±0.3     |
| Northwind 100's 100FSP       | 8.7±0.3       | 0.66±0.02          | 10.9±0.2     |
| Now KFHP                     | *             | >0.02              | 0.1±0.03     |
| Now KFSP                     | 0.9±0.1       | 0.14±0.01          | 1.7±0.1      |
| Now KFMSP                    | 0.9±0.1       | 0.13±0.01          | 1.7±0.2      |
| Now 100s 100FHP              | *             | >0.02              | 0.1±0.03     |
| Now 100s 100FSP              | 1.8±0.1       | 0.23±0.01          | 1.8±0.1      |
| Now 100s 100FMSP             | 1.7±0.1       | 0.22±0.01          | 1.6±0.1      |
| Oasis KFMSP                  | 14.8±0.2      | 1.04±0.03          | 14.9±0.3     |
| Old Gold Straights KNFSP     | 26.9±0.6      | 1.80±0.04          | 18.2±0.5     |
| Old Gold Filters KFSP        | 17.0±0.4      | 1.37±0.04          | 19.1±0.5     |
| Old Gold Filter 100's 100FSP | 19.1±0.4      | 1.58±0.04          | 19.1±0.5     |

\*Not possible to determine precisely with current methodology.

| Brands                              | Tar<br>mg/cig | Nicotine<br>mg/cig | CO<br>mg/cig |
|-------------------------------------|---------------|--------------------|--------------|
| Old Gold Lights KFSP                | 8.9±0.4       | 0.88±0.03          | 10.0±0.5     |
| Omni 100FMSP                        | 7.1±0.2       | 0.72±0.02          | 6.6±0.2      |
| Pall Mall KNFSP                     | 24.8±0.6      | 1.70±0.04          | 17.4±0.4     |
| Pall Mall KFSP                      | 17.6±0.4      | 1.29±0.04          | 18.6±0.6     |
| Pall Mall 100FSP                    | 16.0±0.4      | 1.31±0.03          | 16.6±0.5     |
| Pall Mall Extra Light KFSP          | 6.4±0.2       | 0.64±0.02          | 7.2±0.2      |
| Pall Mall Light 100's 100FSP        | 9.0±0.3       | 0.86±0.02          | 8.5±0.3      |
| Pall Mall Light 100's 100FMSP       | 12.8±0.3      | 1.14±0.03          | 12.8±0.3     |
| Parliament Lights KFHP              | 9.0±0.3       | 0.69±0.02          | 9.6±0.3      |
| Parliament Lights KFSP              | 9.4±0.3       | 0.74±0.02          | 10.8±0.2     |
| Parliament Lights 100's 100FSP      | 11.2±0.3      | 0.92±0.03          | 11.3±0.3     |
| Philip Morris RNFSP                 | 21.7±0.7      | 1.44±0.06          | 12.9±0.5     |
| Philip Morris Commander KNFSP       | 26.9±0.7      | 1.83±0.05          | 16.1±0.6     |
| Philip Morris International 100FHP  | 17.3±0.3      | 1.20±0.03          | 16.1±0.3     |
| Philip Morris International 100FMHP | 15.4±0.4      | 1.03±0.03          | 15.9±0.4     |
| Picayune RNFSP                      | 17.1±0.6      | 1.24±0.03          | 14.0±0.6     |
| Players RNFHP                       | 24.5±0.7      | 1.99±0.06          | 14.9±0.6     |
| Raleigh KNFSP                       | 23.4±0.6      | 1.37±0.04          | 17.6±0.6     |
| Raleigh KFSP                        | 15.2±0.4      | 0.99±0.03          | 17.6±0.4     |
| Raleigh 100's 100FSP                | 16.0±0.4      | 1.12±0.02          | 17.5±0.4     |
| Raleigh Lights KFSP                 | 8.3±0.3       | 0.72±0.02          | 10.2±0.4     |
| Raleigh Lights 100's 100FSP         | 9.8±0.4       | 0.84±0.04          | 13.5±0.6     |
| St. Moritz 100FSP                   | 14.3±0.3      | 1.18±0.02          | 14.4±0.4     |
| St. Moritz 100FMSP                  | 14.5±0.3      | 1.21±0.03          | 14.7±0.5     |
| Salem KFMSF                         | 14.8±0.3      | 1.10±0.03          | 14.2±0.3     |
| Salem 100's 100FMSP                 | 14.7±0.3      | 1.20±0.03          | 13.7±0.3     |
| Salem Lights KFMSF                  | 8.4±0.2       | 0.67±0.02          | 10.7±0.3     |
| Salem Lights 100's 100FMSP          | 8.9±0.2       | 0.76±0.02          | 11.4±0.3     |
| Salem Ultra KFMSF                   | 4.2±0.2       | 0.43±0.02          | 4.9±0.2      |
| Salem Ultra 100s 100FMSP            | 4.4±0.2       | 0.44±0.02          | 6.4±0.3      |
| Saratoga 120's 120FHP               | 14.0±0.5      | 1.02±0.06          | 15.5±0.7     |
| Saratoga 120's 120FMHP              | 14.0±0.4      | 1.04±0.03          | 15.1±0.4     |
| Silva Thins 100's 100FSP            | 12.2±0.5      | 1.15±0.04          | 10.4±0.4     |
| Silva Thins 100's 100FMSP           | 11.9±0.5      | 1.14±0.05          | 10.2±0.4     |
| Spring 100FMSP                      | 19.2±0.4      | 1.15±0.03          | 17.5±0.7     |
| Tall 120s 120FSP                    | 18.2±0.5      | 1.60±0.04          | 20.1±0.4     |
| Tall 120s 120FMSP                   | 16.0±0.4      | 1.42±0.03          | 17.6±0.8     |
| Tareyton KFSP                       | 14.8±0.4      | 1.12±0.03          | 16.5±0.6     |
| Tareyton 100's 100FSP               | 14.3±0.4      | 1.15±0.03          | 17.1±0.6     |
| Tareyton Lights KFSP                | 4.4±0.3       | 0.42±0.02          | 5.1±0.3      |
| Tareyton Long Lights 100FSP         | 7.0±0.4       | 0.68±0.04          | 7.5±0.5      |
| Tareyton Ultra Low Tar KFMSF        | 1.0±0.3       | 0.13±0.03          | 1.4±0.4      |
| Triumph KFSP                        | 2.2±0.1       | 0.32±0.02          | 2.5±0.2      |
| Triumph KFMSF                       | 2.6±0.1       | 0.37±0.01          | 3.1±0.2      |
| Triumph 100s 100FSP                 | 4.3±0.2       | 0.54±0.02          | 6.2±0.4      |
| Triumph 100s 100FMSP                | 4.0±0.2       | 0.50±0.02          | 5.8±0.3      |
| True KFSP                           | 4.3±0.2       | 0.43±0.02          | 4.9±0.2      |

| <u>Brands</u>                     | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|-----------------------------------|-----------------------------|----------------------------------|----------------------------|
| True KFMSF                        | 5.0±0.2                     | 0.48±0.01                        | 5.4±0.2                    |
| True 100's 100FSP                 | 7.1±0.3                     | 0.64±0.02                        | 8.8±0.4                    |
| True 100's 100FMSP                | 7.4±0.3                     | 0.65±0.02                        | 8.7±0.3                    |
| Vantage KFSP                      | 8.8±0.3                     | 0.71±0.02                        | 12.9±0.3                   |
| Vantage KFMSF                     | 8.6±0.2                     | 0.68±0.02                        | 12.8±0.3                   |
| Vantage 100s 100FSP               | 8.6±0.3                     | 0.71±0.02                        | 12.6±0.6                   |
| Vantage Ultra Lights KFSP         | 4.0±0.2                     | 0.41±0.02                        | 5.0±0.3                    |
| Vantage Ultra Lights 100s 100FSP  | 4.2±0.2                     | 0.48±0.02                        | 5.8±0.3                    |
| Viceroy KFSP                      | 14.8±0.4                    | 0.96±0.03                        | 17.0±0.7                   |
| Viceroy Rich Lights KFSP          | 8.5±0.2                     | 0.73±0.02                        | 10.7±0.4                   |
| Viceroy Rich Lights 100FSP        | 9.4±0.3                     | 0.80±0.02                        | 12.8±0.4                   |
| Viceroy Super Long 100's 100FSP   | 14.8±0.4                    | 1.08±0.03                        | 17.8±0.5                   |
| Virginia Slims 100FSP             | 14.7±0.4                    | 1.07±0.02                        | 14.5±0.4                   |
| Virginia Slims 100FMSP            | 14.6±0.2                    | 1.04±0.02                        | 13.5±0.3                   |
| Virginia Slims Lights 100FHP      | 8.3±0.3                     | 0.67±0.02                        | 8.9±0.4                    |
| Virginia Slims Lights 100FMHP     | 7.8±0.3                     | 0.66±0.02                        | 8.4±0.3                    |
| Winston KFHP                      | 16.3±0.4                    | 1.10±0.03                        | 15.6±0.6                   |
| Winston KFSP                      | 15.0±0.3                    | 1.07±0.02                        | 17.0±0.4                   |
| Winston 100's 100FSP              | 14.6±0.4                    | 1.06±0.02                        | 14.8±0.5                   |
| Winston Lights KFSP               | 10.4±0.2                    | 0.83±0.02                        | 11.2±0.3                   |
| Winston Light 100's 100FSP        | 11.9±0.4                    | 0.89±0.02                        | 15.2±0.5                   |
| Winston Ultra Lights KFSP         | 3.9±0.2                     | 0.42±0.02                        | 4.8±0.3                    |
| Winston Ultra Lights 100's 100FSP | 4.7±0.2                     | 0.46±0.02                        | 6.9±0.4                    |
| Winston International 100FHP      | 18.1±0.4                    | 1.40±0.03                        | 17.4±0.4                   |



| <u>Brands</u>                       | <u>Tar<br/>mg/cig</u> | <u>Nicotine<br/>mg/cig</u> | <u>CO<br/>mg/cig</u> |
|-------------------------------------|-----------------------|----------------------------|----------------------|
| L & M KFHP                          | 14.6±0.5              | 1.06±0.04                  | 15.0±0.4             |
| Virginia Slims 100FMSP              | 14.6±0.2              | 1.04±0.02                  | 13.5±0.3             |
| Salem 100's 100FMSP                 | 14.7±0.3              | 1.20±0.03                  | 13.7±0.3             |
| Virginia Slims 100FSP               | 14.7±0.4              | 1.07±0.02                  | 14.5±0.4             |
| Chesterfield 101 100FSP             | 14.7±0.4              | 1.14±0.03                  | 16.7±0.5             |
| Tareyton KFSP                       | 14.8±0.4              | 1.12±0.03                  | 16.5±0.6             |
| Salem KFMSF                         | 14.8±0.3              | 1.10±0.03                  | 14.2±0.3             |
| Marlboro KFMHP                      | 14.8±0.5              | 0.96±0.02                  | 14.3±0.3             |
| Oasis KFMSF                         | 14.8±0.2              | 1.04±0.03                  | 14.9±0.3             |
| Viceroy Super Long 100's 100FSP     | 14.8±0.4              | 1.08±0.03                  | 17.8±0.5             |
| Viceroy KFSP                        | 14.8±0.4              | 0.96±0.03                  | 17.0±0.7             |
| Chesterfield KFSP                   | 14.9±0.4              | 1.07±0.03                  | 15.1±0.4             |
| Lark KFSP                           | 14.9±0.4              | 1.19±0.03                  | 14.1±0.4             |
| Winston KFSP                        | 15.0±0.3              | 1.07±0.02                  | 17.0±0.4             |
| Galaxy KFSP                         | 15.1±0.4              | 1.03±0.03                  | 15.6±0.4             |
| Raleigh KFSP                        | 15.2±0.4              | 0.99±0.03                  | 17.6±0.4             |
| Benson & Hedges KFHP                | 15.3±0.5              | 1.24±0.04                  | 12.8±0.4             |
| Lark 100FSP                         | 15.4±0.4              | 1.30±0.04                  | 14.6±0.4             |
| Philip Morris International 100FMHP | 15.4±0.4              | 1.03±0.03                  | 15.9±0.4             |
| Camel Filters KFSP                  | 15.4±0.5              | 1.11±0.03                  | 15.3±0.6             |
| More 120FMSP                        | 15.6±0.3              | 1.31±0.03                  | 19.8±0.6             |
| Newport KFMHP                       | 15.8±0.3              | 1.19±0.03                  | 16.3±0.5             |
| Montclair KFMSF                     | 15.8±0.3              | 1.11±0.03                  | 16.1±0.4             |
| Long Johns 120FMSP                  | 15.9±0.5              | 1.43±0.04                  | 17.9±0.9             |
| Benson & Hedges 100's 100FHP        | 15.9±0.5              | 1.13±0.04                  | 15.5±0.5             |
| Benson & Hedges 100's 100FMHP       | 15.9±0.4              | 1.11±0.03                  | 15.4±0.3             |
| Tall 120s 120FMSP                   | 16.0±0.4              | 1.42±0.03                  | 17.6±0.8             |
| Raleigh 100's 100FSP                | 16.0±0.4              | 1.12±0.02                  | 17.5±0.4             |
| Pall Mall 100FSP                    | 16.0±0.4              | 1.31±0.03                  | 16.6±0.5             |
| Benson & Hedges 100's 100FMSP       | 16.2±0.4              | 1.19±0.03                  | 16.5±0.4             |
| Winston KFHP                        | 16.3±0.4              | 1.10±0.03                  | 15.6±0.6             |
| Kool KFMHP                          | 16.3±0.4              | 1.21±0.03                  | 16.9±0.4             |
| Marlboro KFHP                       | 16.3±0.4              | 1.12±0.03                  | 14.9±0.4             |
| Marlboro 100's 100FSP               | 16.4±0.5              | 1.18±0.04                  | 16.5±0.5             |
| Marlboro 100's 100FHP               | 16.5±0.4              | 1.18±0.03                  | 17.1±0.5             |
| More 120FSP                         | 16.7±0.5              | 1.28±0.03                  | 20.7±0.6             |
| Benson & Hedges 100's 100FSP        | 16.7±0.5              | 1.20±0.04                  | 16.8±0.5             |
| Marlboro KFSP                       | 16.8±0.5              | 1.15±0.03                  | 15.7±0.4             |
| DuMaurier KFHP                      | 16.8±0.8              | 1.15±0.06                  | 18.8±0.7             |
| Newport KFMSF                       | 17.0±0.4              | 1.30±0.04                  | 18.0±0.5             |
| Old Gold Filters KFSP               | 17.0±0.4              | 1.37±0.04                  | 19.1±0.5             |
| Kool KFMSF                          | 17.0±0.4              | 1.23±0.03                  | 15.8±0.5             |
| Picayune RNFSP                      | 17.1±0.6              | 1.24±0.03                  | 14.0±0.6             |
| Philip Morris International 100FHP  | 17.3±0.3              | 1.20±0.03                  | 16.1±0.3             |
| Pall Mall KFSP                      | 17.6±0.4              | 1.29±0.04                  | 18.6±0.6             |
| Half & Half KFSP                    | 17.8±0.5              | 1.51±0.04                  | 16.9±0.4             |
| Max 120FMSP                         | 17.9±0.4              | 1.54±0.02                  | 16.7±0.6             |

| <u>Brands</u>                 | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|-------------------------------|-----------------------------|----------------------------------|----------------------------|
| Winston International 100FHP  | 18.1±0.4                    | 1.40±0.03                        | 17.4±0.4                   |
| Tall 120s 120FSP              | 18.2±0.5                    | 1.60±0.04                        | 20.1±0.4                   |
| Max 120FSP                    | 18.5±0.4                    | 1.58±0.05                        | 17.5±0.4                   |
| Long Johns 120FSP             | 18.7±0.5                    | 1.59±0.04                        | 19.8±0.8                   |
| Kool RNFMSF                   | 18.7±0.6                    | 1.12±0.04                        | 14.5±0.5                   |
| Old Gold Filter 100's 100FSP  | 19.1±0.4                    | 1.58±0.04                        | 19.1±0.5                   |
| Spring 100FMSP                | 19.2±0.4                    | 1.15±0.03                        | 17.5±0.7                   |
| Newport 100FMSP               | 19.3±0.4                    | 1.54±0.05                        | 19.7±0.5                   |
| Camel RNFSP                   | 20.6±0.4                    | 1.39±0.03                        | 13.0±0.3                   |
| Chesterfield RNFSP            | 20.9±0.5                    | 1.42±0.04                        | 13.3±0.3                   |
| Philip Morris RNFSP           | 21.7±0.7                    | 1.44±0.06                        | 12.9±0.5                   |
| English Ovals RNFHP           | 21.7±0.5                    | 1.77±0.06                        | 12.1±0.4                   |
| Raleigh KNFSP                 | 23.4±0.6                    | 1.37±0.04                        | 17.6±0.6                   |
| Lucky Strike RNFSP            | 24.5±0.6                    | 1.56±0.03                        | 16.9±0.4                   |
| Players RNFHP                 | 24.5±0.7                    | 1.99±0.06                        | 14.9±0.6                   |
| Chesterfield KNFSP            | 24.6±0.6                    | 1.75±0.05                        | 15.6±0.6                   |
| Pall Mall KNFSP               | 24.8±0.6                    | 1.70±0.04                        | 17.4±0.4                   |
| English Ovals KNFHP           | 26.7±0.8                    | 2.24±0.06                        | 14.4±0.6                   |
| Old Gold Straights KNFSP      | 26.9±0.6                    | 1.80±0.04                        | 18.2±0.5                   |
| Philip Morris Commander KNFSP | 26.9±0.7                    | 1.83±0.05                        | 16.1±0.6                   |
| Herbert Tareyton KNFSP        | 27.6±0.7                    | 1.94±0.05                        | 19.2±0.6                   |
| Bull Durham KFSP              | 29.1±0.6                    | 2.10±0.06                        | 23.1±0.4                   |

**N I C O T I N E   R A N K I N G S**  
**2 0 8   B R A N D S**

PM3000763262

| Brands                            | Nicotine<br>mg/cig | Tar<br>mg/cig | CO<br>mg/cig |
|-----------------------------------|--------------------|---------------|--------------|
| Cambridge KFHP*                   | <0.02              | -             | 0.1±0.04     |
| Carlton KFHP*                     | <0.02              | -             | 0.0±0.03     |
| Now KFHP*                         | <0.02              | -             | 0.1±0.03     |
| Now 100s 100FHP*                  | <0.02              | -             | 0.1±0.03     |
| Carlton KFMSF                     | 0.09±0.01          | 0.4±0.1       | 1.1±0.1      |
| Carlton 100's 100FHP              | 0.09±0.01          | 0.4±0.1       | 0.8±0.1      |
| Benson & Hedges RFHP              | 0.09±0.01          | 0.7±0.1       | 1.7±0.2      |
| Cambridge KFSP                    | 0.10±0.01          | 0.6±0.1       | 1.3±0.1      |
| Carlton 100's 100FMSP             | 0.10±0.02          | 0.6±0.1       | 0.8±0.2      |
| Barclay KFMSF                     | 0.12±0.01          | 1.0±0.2       | 1.5±0.2      |
| Barclay KFSP                      | 0.12±0.02          | 0.8±0.2       | 1.0±0.2      |
| Carlton KFSP                      | 0.12±0.01          | 0.8±0.1       | 1.8±0.1      |
| Tareyton Ultra Low Tar KFMSF      | 0.13±0.03          | 1.0±0.3       | 1.4±0.4      |
| Now KFMSF                         | 0.13±0.01          | 0.9±0.1       | 1.7±0.2      |
| Now KFSP                          | 0.14±0.01          | 0.9±0.1       | 1.7±0.1      |
| Barclay KFHP                      | 0.15±0.03          | 0.9±0.2       | 1.2±0.2      |
| Kool Ultra KFMSF                  | 0.18±0.03          | 1.7±0.3       | 1.7±0.3      |
| Now 100s 100FMSP                  | 0.22±0.01          | 1.7±0.1       | 1.6±0.1      |
| Now 100s 100FSP                   | 0.23±0.01          | 1.8±0.1       | 1.8±0.1      |
| Iceberg 100's 100FMSP             | 0.28±0.01          | 2.5±0.1       | 3.6±0.2      |
| Barclay 100FMSP                   | 0.30±0.02          | 2.9±0.2       | 2.7±0.2      |
| Barclay 100FSP                    | 0.32±0.02          | 2.9±0.2       | 2.6±0.2      |
| Triumph KFSP                      | 0.32±0.02          | 2.2±0.1       | 2.5±0.2      |
| Kent III KFSP                     | 0.33±0.01          | 2.4±0.1       | 2.8±0.2      |
| Merit Ultra Lights KFMSF          | 0.33±0.01          | 3.3±0.2       | 4.1±0.2      |
| Merit Ultra Lights KFSP           | 0.33±0.02          | 3.3±0.1       | 4.3±0.3      |
| Lucky 100's 100FSP                | 0.34±0.01          | 3.2±0.1       | 5.0±0.2      |
| Cambridge 100's 100FSP            | 0.37±0.01          | 3.3±0.1       | 5.6±0.2      |
| Triumph KFMSF                     | 0.37±0.01          | 2.6±0.1       | 3.1±0.2      |
| Doral II KFSP                     | 0.40±0.02          | 4.1±0.2       | 3.9±0.2      |
| Doral II KFMSF                    | 0.41±0.02          | 4.0±0.2       | 3.6±0.2      |
| Vantage Ultra Lights KFSP         | 0.41±0.02          | 4.0±0.2       | 5.0±0.3      |
| Winston Ultra Lights KFSP         | 0.42±0.02          | 3.9±0.2       | 4.8±0.3      |
| Tareyton Lights KFSP              | 0.42±0.02          | 4.4±0.3       | 5.1±0.3      |
| Carlton 100's 100FSP              | 0.42±0.02          | 4.1±0.3       | 5.7±0.4      |
| Kool Ultra 100's 100FMSP          | 0.42±0.03          | 4.0±0.3       | 3.7±0.3      |
| True KFSP                         | 0.43±0.02          | 4.3±0.2       | 4.9±0.2      |
| Salem Ultra KFMSF                 | 0.43±0.02          | 4.2±0.2       | 4.9±0.2      |
| Carlton 100's 100FMSP             | 0.43±0.03          | 4.1±0.3       | 5.6±0.5      |
| Salem Ultra 100s 100FMSP          | 0.44±0.02          | 4.4±0.2       | 6.4±0.3      |
| Winston Ultra Lights 100's 100FSP | 0.46±0.02          | 4.7±0.2       | 6.9±0.4      |
| True KFMSF                        | 0.48±0.01          | 5.0±0.2       | 5.4±0.2      |
| Vantage Ultra Lights 100s 100FSP  | 0.48±0.02          | 4.2±0.2       | 5.8±0.3      |
| Decade KFMSF                      | 0.49±0.02          | 5.0±0.2       | 4.6±0.3      |
| Triumph 100s 100FMSP              | 0.50±0.02          | 4.0±0.2       | 5.8±0.3      |

\*Not possible to rank. Listed alphabetically.

| Brands                               | Nicotine<br>mg/cig | Tar<br>mg/cig | CO<br>mg/cig |
|--------------------------------------|--------------------|---------------|--------------|
| Decade KFSP                          | 0.50±0.02          | 5.0±0.2       | 4.9±0.3      |
| Kent III 100FSP                      | 0.51±0.02          | 4.2±0.2       | 6.2±0.2      |
| Triumph 100s 100FSP                  | 0.54±0.02          | 4.3±0.2       | 6.2±0.4      |
| Kool Super Lights KFMSF              | 0.55±0.02          | 6.3±0.3       | 6.8±0.4      |
| Merit KFMSF                          | 0.58±0.02          | 7.5±0.3       | 10.0±0.3     |
| Carlton 120's 120FSP                 | 0.58±0.02          | 5.3±0.3       | 4.6±0.2      |
| Merit KFSP                           | 0.59±0.02          | 7.7±0.3       | 10.3±0.4     |
| Northwind KFSP                       | 0.59±0.01          | 8.2±0.2       | 10.6±0.3     |
| True 100's 100FSP                    | 0.64±0.02          | 7.1±0.3       | 8.8±0.4      |
| Pall Mall Extra Light KFSP           | 0.64±0.02          | 6.4±0.2       | 7.2±0.2      |
| True 100's 100FMSF                   | 0.65±0.02          | 7.4±0.3       | 8.7±0.3      |
| Northwind 100's 100FSP               | 0.66±0.02          | 8.7±0.3       | 10.9±0.2     |
| Carlton 120's 120FMSF                | 0.66±0.03          | 5.9±0.3       | 5.2±0.2      |
| Virginia Slims Lights 100FMHP        | 0.66±0.02          | 7.8±0.3       | 8.4±0.3      |
| More Lights 100's 100FMHP            | 0.67±0.03          | 7.2±0.3       | 9.1±0.4      |
| Virginia Slims Lights 100FHP         | 0.67±0.02          | 8.3±0.3       | 8.9±0.4      |
| Salem Lights KFMSF                   | 0.67±0.02          | 8.4±0.2       | 10.7±0.3     |
| Tareyton Long Lights 100FSP          | 0.68±0.04          | 7.0±0.4       | 7.5±0.5      |
| Vantage KFMSF                        | 0.68±0.02          | 8.6±0.2       | 12.8±0.3     |
| Parliament Lights KFHP               | 0.69±0.02          | 9.0±0.3       | 9.6±0.3      |
| Merit 100's 100FMSF                  | 0.71±0.02          | 9.1±0.2       | 11.2±0.3     |
| Vantage 100s 100FSP                  | 0.71±0.02          | 8.6±0.3       | 12.6±0.6     |
| Vantage KFSP                         | 0.71±0.02          | 8.8±0.3       | 12.9±0.3     |
| Golden Lights KFSP                   | 0.72±0.03          | 7.4±0.3       | 8.0±0.3      |
| More Lights 100's 100FHP             | 0.72±0.02          | 8.4±0.2       | 9.5±0.2      |
| Kool Super Lights 100's 100FMSF      | 0.72±0.03          | 9.5±0.3       | 12.0±0.4     |
| Omni 100FMSF                         | 0.72±0.02          | 7.1±0.2       | 6.6±0.2      |
| Raleigh Lights KFSP                  | 0.72±0.02          | 8.3±0.3       | 10.2±0.4     |
| Camel Lights KFHP                    | 0.73±0.03          | 7.5±0.3       | 7.9±0.3      |
| Golden Lights 100's 100FMSF          | 0.73±0.03          | 7.2±0.4       | 7.5±0.5      |
| Belair 100FMSF                       | 0.73±0.02          | 9.4±0.3       | 11.8±0.3     |
| Viceroy Rich Lights KFSP             | 0.73±0.02          | 8.5±0.2       | 10.7±0.4     |
| Golden Lights KFMSF                  | 0.74±0.02          | 7.8±0.3       | 8.3±0.4      |
| Lucky Ten KFSP                       | 0.74±0.03          | 8.6±0.3       | 10.6±0.3     |
| Benson & Hedges Lights 100's 100FMSF | 0.74±0.07          | 10.0±0.3      | 11.6±0.4     |
| Newport Lights KFMSF                 | 0.74±0.02          | 8.3±0.3       | 9.1±0.3      |
| Kool Lights KFMSF                    | 0.74±0.02          | 8.9±0.2       | 10.2±0.4     |
| Merit 100's 100FSP                   | 0.74±0.02          | 9.6±0.3       | 12.1±0.4     |
| Newport Lights KFMSF                 | 0.74±0.03          | 8.3±0.3       | 9.1±0.4      |
| Parliament Lights KFSP               | 0.74±0.02          | 9.4±0.3       | 10.8±0.2     |
| Camel Lights KFSP                    | 0.75±0.02          | 8.1±0.2       | 10.6±0.3     |
| Salem Lights 100's 100FMSF           | 0.76±0.02          | 8.9±0.2       | 11.4±0.3     |
| Marlboro Lights KFHP                 | 0.76±0.02          | 10.2±0.3      | 11.8±0.3     |
| Belair KFMSF                         | 0.78±0.02          | 8.8±0.3       | 9.9±0.3      |
| Golden Lights 100's 100FSP           | 0.80±0.03          | 8.0±0.3       | 8.2±0.5      |
| Viceroy Rich Lights 100FSP           | 0.80±0.02          | 9.4±0.3       | 12.8±0.4     |
| Marlboro Lights KFSP                 | 0.82±0.02          | 11.1±0.3      | 12.8±0.3     |

| <u>Brands</u>                        | <u>Nicotine</u><br><u>mg/cig</u> | <u>Tar</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|--------------------------------------|----------------------------------|-----------------------------|----------------------------|
| Newport Lights 100's 100FMSP         | 0.82±0.03                        | 8.7±0.3                     | 9.2±0.4                    |
| Benson & Hedges Multifilter KFMSF    | 0.83±0.03                        | 10.9±0.5                    | 10.6±0.5                   |
| Winston Lights KFSP                  | 0.83±0.02                        | 10.4±0.2                    | 11.2±0.3                   |
| Benson & Hedges Lights 100's 100FSP  | 0.83±0.02                        | 10.5±0.4                    | 12.9±0.6                   |
| L & M Lights KFSP                    | 0.83±0.02                        | 8.1±0.3                     | 7.0±0.3                    |
| L & M Lights 100FMSP                 | 0.83±0.02                        | 7.7±0.2                     | 6.1±0.3                    |
| Decade 100's 100FSP                  | 0.84±0.02                        | 7.9±0.2                     | 7.0±0.3                    |
| Raleigh Lights 100's 100FSP          | 0.84±0.04                        | 9.8±0.4                     | 13.5±0.6                   |
| Benson & Hedges Lights 100's 100FMHP | 0.85±0.03                        | 10.5±0.3                    | 12.1±0.5                   |
| Benson & Hedges Multifilter KFSP     | 0.85±0.02                        | 12.0±0.3                    | 11.6±0.3                   |
| L & M Lights 100FSP                  | 0.85±0.03                        | 7.9±0.3                     | 6.3±0.2                    |
| Marlboro Lights 100's 100FSP         | 0.85±0.02                        | 10.8±0.3                    | 12.7±0.5                   |
| Benson & Hedges Lights 100's 100FHP  | 0.85±0.02                        | 11.3±0.2                    | 13.3±0.3                   |
| Kool Milds KFMSF                     | 0.86±0.03                        | 10.8±0.4                    | 12.1±0.4                   |
| Pall Mall Light 100's 100FSP         | 0.86±0.02                        | 9.0±0.3                     | 8.5±0.3                    |
| Old Gold Lights KFSP                 | 0.88±0.03                        | 8.9±0.4                     | 10.0±0.5                   |
| Winston Light 100's 100FSP           | 0.89±0.02                        | 11.9±0.4                    | 15.2±0.5                   |
| Kool Lights 100's 100FMSP            | 0.89±0.03                        | 10.6±0.3                    | 11.2±0.3                   |
| Camel Lights 100's 100FSP            | 0.89±0.03                        | 11.5±0.3                    | 14.5±0.3                   |
| Marlboro KFMSF                       | 0.91±0.02                        | 13.9±0.3                    | 13.8±0.4                   |
| Parliament Lights 100's 100FSP       | 0.92±0.03                        | 11.2±0.3                    | 11.3±0.3                   |
| Kool Milds 100FMSP                   | 0.92±0.03                        | 11.6±0.3                    | 13.5±0.3                   |
| Alpine KFMSF                         | 0.92±0.03                        | 14.1±0.3                    | 14.1±0.4                   |
| Marlboro KFMSF                       | 0.96±0.02                        | 14.8±0.5                    | 14.3±0.3                   |
| Viceroy KFSP                         | 0.96±0.03                        | 14.8±0.4                    | 17.0±0.7                   |
| Kool Super Longs 100's 100FMSP       | 0.98±0.03                        | 13.7±0.4                    | 16.1±0.7                   |
| Raleigh KFSP                         | 0.99±0.03                        | 15.2±0.4                    | 17.6±0.4                   |
| Kent Micronite II KFHP               | 1.00±0.03                        | 12.8±0.4                    | 13.0±0.5                   |
| Kent Micronite II KFSP               | 1.01±0.03                        | 12.2±0.3                    | 12.3±0.4                   |
| Saratoga 120's 120FHP                | 1.02±0.06                        | 14.0±0.5                    | 15.5±0.7                   |
| Galaxy KFSP                          | 1.03±0.03                        | 15.1±0.4                    | 15.6±0.4                   |
| Eve Lights 100's 100FMSP             | 1.03±0.03                        | 12.6±0.3                    | 13.3±0.5                   |
| Philip Morris International 100FMHP  | 1.03±0.03                        | 15.4±0.4                    | 15.9±0.4                   |
| Virginia Slims 100FMSP               | 1.04±0.02                        | 14.6±0.2                    | 13.5±0.3                   |
| Saratoga 120's 120FMHP               | 1.04±0.03                        | 14.0±0.4                    | 15.1±0.4                   |
| Oasis KFMSF                          | 1.04±0.03                        | 14.8±0.2                    | 14.9±0.3                   |
| Eve Lights 100's 100FSP              | 1.05±0.03                        | 12.5±0.4                    | 13.6±0.5                   |
| Winston 100's 100FSP                 | 1.06±0.02                        | 14.6±0.4                    | 14.8±0.5                   |
| L & M KFHP                           | 1.06±0.04                        | 14.6±0.5                    | 15.0±0.4                   |
| Winston KFSP                         | 1.07±0.02                        | 15.0±0.3                    | 17.0±0.4                   |
| Chesterfield KFSP                    | 1.07±0.03                        | 14.9±0.4                    | 15.1±0.4                   |
| L & M KFSP                           | 1.07±0.03                        | 14.6±0.4                    | 15.4±0.6                   |
| Virginia Slims 100FSP                | 1.07±0.02                        | 14.7±0.4                    | 14.5±0.4                   |
| Viceroy Super Long 100's 100FSP      | 1.08±0.03                        | 14.8±0.4                    | 17.8±0.5                   |
| Lark Lights KFSP                     | 1.09±0.03                        | 13.7±0.4                    | 13.3±0.4                   |
| Winston KFHP                         | 1.10±0.03                        | 16.3±0.4                    | 15.6±0.6                   |
| Salem KFMSF                          | 1.10±0.03                        | 14.8±0.3                    | 14.2±0.3                   |

| <u>Brands</u>                 | <u>Nicotine</u><br><u>mg/cig</u> | <u>Tar</u><br><u>mg/cig</u> | <u>CO</u><br><u>mg/cig</u> |
|-------------------------------|----------------------------------|-----------------------------|----------------------------|
| Winston International 100FHP  | 1.40±0.03                        | 18.1±0.4                    | 17.4±0.4                   |
| Chesterfield RNFSP            | 1.42±0.04                        | 20.9±0.5                    | 13.3±0.3                   |
| Tall 120s 120FMSP             | 1.42±0.03                        | 16.0±0.4                    | 17.6±0.8                   |
| Long Johns 120FMSP            | 1.43±0.04                        | 15.9±0.5                    | 17.9±0.9                   |
| Philip Morris RNFSP           | 1.44±0.06                        | 21.7±0.7                    | 12.9±0.5                   |
| Half & Half KFSP              | 1.51±0.04                        | 17.8±0.5                    | 16.9±0.4                   |
| Max 120FMSP                   | 1.54±0.02                        | 17.9±0.4                    | 16.7±0.6                   |
| Newport 100FMSP               | 1.54±0.05                        | 19.3±0.4                    | 19.7±0.5                   |
| Lucky Strike RNFSP            | 1.56±0.03                        | 24.5±0.6                    | 16.9±0.4                   |
| Max 120FSP                    | 1.58±0.05                        | 18.5±0.4                    | 17.5±0.4                   |
| Old Gold Filter 100's 100FSP  | 1.58±0.04                        | 19.1±0.4                    | 19.1±0.5                   |
| Long Johns 120FSP             | 1.59±0.04                        | 18.7±0.5                    | 19.8±0.8                   |
| Tall 120s 120FSP              | 1.60±0.04                        | 18.2±0.5                    | 20.1±0.4                   |
| Pall Mall KNFSP               | 1.70±0.04                        | 24.8±0.6                    | 17.4±0.4                   |
| Chesterfield KNFSP            | 1.75±0.05                        | 24.6±0.6                    | 15.6±0.6                   |
| English Ovals RNFHP           | 1.77±0.06                        | 21.7±0.5                    | 12.1±0.4                   |
| Old Gold Straights KNFSP      | 1.80±0.04                        | 26.9±0.6                    | 18.2±0.5                   |
| Philip Morris Commander KNFSP | 1.83±0.05                        | 26.9±0.7                    | 16.1±0.6                   |
| Herbert Tareyton KNFSP        | 1.94±0.05                        | 27.6±0.7                    | 19.2±0.6                   |
| Players RNFHP                 | 1.99±0.06                        | 24.5±0.7                    | 14.9±0.6                   |
| Bull Durham KFSP              | 2.10±0.06                        | 29.1±0.6                    | 23.1±0.4                   |
| English Ovals KNFHP           | 2.24±0.06                        | 26.7±0.8                    | 14.4±0.6                   |

C A R B O N   M O N O X I D E   R A N K I N G S  
2 0 8   B R A N D S

PM3000763267



| Brands                           | CO<br>mg/cig | Tar<br>mg/cig | Nicotine<br>mg/cig |
|----------------------------------|--------------|---------------|--------------------|
| Carlton KFHP                     | 0.0±0.03     | -             | <0.02              |
| Cambridge KFHP                   | 0.1±0.04     | -             | <0.02              |
| Now 100s 100FHP                  | 0.1±0.03     | -             | <0.02              |
| Now KFHP                         | 0.1±0.03     | -             | <0.02              |
| Carlton 100's 100FHP             | 0.8±0.1      | 0.4±0.1       | 0.09±0.01          |
| Carlton 100's 100FMHP            | 0.8±0.2      | 0.6±0.1       | 0.10±0.02          |
| Barclay KFSP                     | 1.0±0.2      | 0.8±0.2       | 0.12±0.02          |
| Carlton KFMSF                    | 1.1±0.1      | 0.4±0.1       | 0.09±0.01          |
| Barclay KFHP                     | 1.2±0.2      | 0.9±0.2       | 0.15±0.03          |
| Cambridge KFSP                   | 1.3±0.1      | 0.6±0.1       | 0.10±0.01          |
| Tareyton Ultra Low Tar KFMSF     | 1.4±0.4      | 1.0±0.3       | 0.13±0.03          |
| Barclay KFMSF                    | 1.5±0.2      | 1.0±0.2       | 0.12±0.01          |
| Now 100s 100FMSF                 | 1.6±0.1      | 1.7±0.1       | 0.22±0.01          |
| Now KFMSF                        | 1.7±0.2      | 0.9±0.1       | 0.13±0.01          |
| Benson & Hedges RFHP             | 1.7±0.2      | 0.7±0.1       | 0.09±0.01          |
| Kool Ultra KFMSF                 | 1.7±0.3      | 1.7±0.3       | 0.18±0.03          |
| Now KFSP                         | 1.7±0.1      | 0.9±0.1       | 0.14±0.01          |
| Now 100s 100FSP                  | 1.8±0.1      | 1.8±0.1       | 0.23±0.01          |
| Carlton KFSP                     | 1.8±0.1      | 0.8±0.1       | 0.12±0.01          |
| Triumph KFSP                     | 2.5±0.2      | 2.2±0.1       | 0.32±0.02          |
| Barclay 100FSP                   | 2.6±0.2      | 2.9±0.2       | 0.32±0.02          |
| Barclay 100FMSF                  | 2.7±0.2      | 2.9±0.2       | 0.30±0.02          |
| Kent III KFSP                    | 2.8±0.2      | 2.4±0.1       | 0.33±0.01          |
| Triumph KFMSF                    | 3.1±0.2      | 2.6±0.1       | 0.37±0.01          |
| Iceberg 100's 100FMSF            | 3.6±0.2      | 2.5±0.1       | 0.28±0.01          |
| Doral II KFMSF                   | 3.6±0.2      | 4.0±0.2       | 0.41±0.02          |
| Kool Ultra 100's 100FMSF         | 3.7±0.3      | 4.0±0.3       | 0.42±0.03          |
| Doral II KFSP                    | 3.9±0.2      | 4.1±0.2       | 0.40±0.02          |
| Merit Ultra Lights KFMSF         | 4.1±0.2      | 3.3±0.2       | 0.33±0.01          |
| Merit Ultra Lights KFSP          | 4.3±0.3      | 3.3±0.1       | 0.33±0.02          |
| Decade KFMSF                     | 4.6±0.3      | 5.0±0.2       | 0.49±0.02          |
| Carlton 120's 120FSP             | 4.6±0.2      | 5.3±0.3       | 0.58±0.02          |
| Winston Ultra Lights KFSP        | 4.8±0.3      | 3.9±0.2       | 0.42±0.02          |
| Salem Ultra KFMSF                | 4.9±0.2      | 4.2±0.2       | 0.43±0.02          |
| True KFSP                        | 4.9±0.2      | 4.3±0.2       | 0.43±0.02          |
| Decade KFSP                      | 4.9±0.3      | 5.0±0.2       | 0.50±0.02          |
| Lucky 100's 100FSP               | 5.0±0.2      | 3.2±0.1       | 0.34±0.01          |
| Vantage Ultra Lights KFSP        | 5.0±0.3      | 4.0±0.2       | 0.41±0.02          |
| Tareyton Lights KFSP             | 5.1±0.3      | 4.4±0.3       | 0.42±0.02          |
| Carlton 120's 120FMSF            | 5.2±0.2      | 5.9±0.3       | 0.66±0.03          |
| True KFMSF                       | 5.4±0.2      | 5.0±0.2       | 0.48±0.01          |
| Carlton 100's 100FMSF            | 5.6±0.5      | 4.1±0.3       | 0.43±0.03          |
| Cambridge 100's 100FSP           | 5.6±0.2      | 3.3±0.1       | 0.37±0.01          |
| Carlton 100's 100FSP             | 5.7±0.4      | 4.1±0.3       | 0.42±0.02          |
| Vantage Ultra Lights 100s 100FSP | 5.8±0.3      | 4.2±0.2       | 0.48±0.02          |
| Triumph 100s 100FMSF             | 5.8±0.3      | 4.0±0.2       | 0.50±0.02          |
| L & M Lights 100FMSF             | 6.1±0.3      | 7.7±0.2       | 0.83±0.02          |

| <u>Brands</u>                     | <u>CO</u><br><u>mg/cig</u> | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> |
|-----------------------------------|----------------------------|-----------------------------|----------------------------------|
| Triumph 100s 100FSP               | 6.2±0.4                    | 4.3±0.2                     | 0.54±0.02                        |
| Kent III 100FSP                   | 6.2±0.2                    | 4.2±0.2                     | 0.51±0.02                        |
| L & M Lights 100FSP               | 6.3±0.2                    | 7.9±0.3                     | 0.85±0.03                        |
| Salem Ultra 100s 100FMSP          | 6.4±0.3                    | 4.4±0.2                     | 0.44±0.02                        |
| Omni 100FMSP                      | 6.6±0.2                    | 7.1±0.2                     | 0.72±0.02                        |
| Kool Super Lights KFMSF           | 6.8±0.4                    | 6.3±0.3                     | 0.55±0.02                        |
| Winston Ultra Lights 100's 100FSP | 6.9±0.4                    | 4.7±0.2                     | 0.46±0.02                        |
| Decade 100's 100FSP               | 7.0±0.3                    | 7.9±0.2                     | 0.84±0.02                        |
| L & M Lights KFSP                 | 7.0±0.3                    | 8.1±0.3                     | 0.83±0.02                        |
| Pall Mall Extra Light KFSP        | 7.2±0.2                    | 6.4±0.2                     | 0.64±0.02                        |
| Golden Lights 100's 100FMSP       | 7.5±0.5                    | 7.2±0.4                     | 0.73±0.03                        |
| Tareyton Long Lights 100FSP       | 7.5±0.5                    | 7.0±0.4                     | 0.68±0.04                        |
| Camel Lights KFHP                 | 7.9±0.3                    | 7.5±0.3                     | 0.73±0.03                        |
| Golden Lights KFSP                | 8.0±0.3                    | 7.4±0.3                     | 0.72±0.03                        |
| Golden Lights 100's 100FSP        | 8.2±0.5                    | 8.0±0.3                     | 0.80±0.03                        |
| Golden Lights KFMSF               | 8.3±0.4                    | 7.8±0.3                     | 0.74±0.02                        |
| Virginia Slims Lights 100FMHP     | 8.4±0.3                    | 7.8±0.3                     | 0.66±0.02                        |
| Pall Mall Light 100's 100FSP      | 8.5±0.3                    | 9.0±0.3                     | 0.86±0.02                        |
| True 100's 100FMSP                | 8.7±0.3                    | 7.4±0.3                     | 0.65±0.02                        |
| True 100's 100FSP                 | 8.8±0.4                    | 7.1±0.3                     | 0.64±0.02                        |
| Virginia Slims Lights 100FHP      | 8.9±0.4                    | 8.3±0.3                     | 0.67±0.02                        |
| Newport Lights KFMSF              | 9.1±0.3                    | 8.3±0.3                     | 0.74±0.02                        |
| Newport Lights KFMSF              | 9.1±0.4                    | 8.3±0.3                     | 0.74±0.03                        |
| More Lights 100's 100FMHP         | 9.1±0.4                    | 7.2±0.3                     | 0.67±0.03                        |
| Newport Lights 100's 100FMSP      | 9.2±0.4                    | 8.7±0.3                     | 0.82±0.03                        |
| More Lights 100's 100FHP          | 9.5±0.2                    | 8.4±0.2                     | 0.72±0.02                        |
| Parliament Lights KFHP            | 9.6±0.3                    | 9.0±0.3                     | 0.69±0.02                        |
| Belair KFMSF                      | 9.9±0.3                    | 8.8±0.3                     | 0.78±0.02                        |
| Old Gold Lights KFSP              | 10.0±0.5                   | 8.9±0.4                     | 0.88±0.03                        |
| Merit KFMSF                       | 10.0±0.3                   | 7.5±0.3                     | 0.58±0.02                        |
| Raleigh Lights KFSP               | 10.2±0.4                   | 8.3±0.3                     | 0.72±0.02                        |
| Silva Thins 100's 100FMSP         | 10.2±0.4                   | 11.9±0.5                    | 1.14±0.05                        |
| Kool Lights KFMSF                 | 10.2±0.4                   | 8.9±0.2                     | 0.74±0.02                        |
| Merit KFSP                        | 10.3±0.4                   | 7.7±0.3                     | 0.59±0.02                        |
| Silva Thins 100's 100FSP          | 10.4±0.4                   | 12.2±0.5                    | 1.15±0.04                        |
| Lucky Ten KFSP                    | 10.6±0.3                   | 8.6±0.3                     | 0.74±0.03                        |
| Northwind KFSP                    | 10.6±0.3                   | 8.2±0.2                     | 0.59±0.01                        |
| Benson & Hedges Multifilter KFMSF | 10.6±0.5                   | 10.9±0.5                    | 0.83±0.03                        |
| Camel Lights KFSP                 | 10.6±0.3                   | 8.1±0.2                     | 0.75±0.02                        |
| Salem Lights KFMSF                | 10.7±0.3                   | 8.4±0.2                     | 0.67±0.02                        |
| Viceroy Rich Lights KFSP          | 10.7±0.4                   | 8.5±0.2                     | 0.73±0.02                        |
| Parliament Lights KFSP            | 10.8±0.2                   | 9.4±0.3                     | 0.74±0.02                        |
| Northwind 100's 100FSP            | 10.9±0.2                   | 8.7±0.3                     | 0.66±0.02                        |
| Kool Lights 100's 100FMSP         | 11.2±0.3                   | 10.6±0.3                    | 0.89±0.03                        |
| Winston Lights KFSP               | 11.2±0.3                   | 10.4±0.2                    | 0.83±0.02                        |
| Merit 100's 100FMSP               | 11.2±0.3                   | 9.1±0.2                     | 0.71±0.02                        |
| Parliament Lights 100's 100FSP    | 11.3±0.3                   | 11.2±0.3                    | 0.92±0.03                        |

| <u>Brands</u>                        | <u>CO</u><br><u>mg/cig</u> | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> |
|--------------------------------------|----------------------------|-----------------------------|----------------------------------|
| Salem Lights 100's 100FMSP           | 11.4±0.3                   | 8.9±0.2                     | 0.76±0.02                        |
| Eve Lights 120's 120FHP              | 11.4±0.6                   | 13.5±0.5                    | 1.17±0.04                        |
| Benson & Hedges Multifilter KFSP     | 11.6±0.3                   | 12.0±0.3                    | 0.85±0.02                        |
| Benson & Hedges Lights 100's 100FMSP | 11.6±0.4                   | 10.0±0.3                    | 0.74±0.07                        |
| Eve Lights 120's 120FMHP             | 11.7±0.4                   | 13.7±0.3                    | 1.19±0.03                        |
| Marlboro Lights KFHP                 | 11.8±0.3                   | 10.2±0.3                    | 0.76±0.02                        |
| Belair 100FMSP                       | 11.8±0.3                   | 9.4±0.3                     | 0.73±0.02                        |
| Kool Super Lights 100's 100FMSP      | 12.0±0.4                   | 9.5±0.3                     | 0.72±0.03                        |
| Benson & Hedges Lights 100's 100FMHP | 12.1±0.5                   | 10.5±0.3                    | 0.85±0.03                        |
| Merit 100's 100FSP                   | 12.1±0.4                   | 9.6±0.3                     | 0.74±0.02                        |
| English Ovals RNFHP                  | 12.1±0.4                   | 21.7±0.5                    | 1.77±0.06                        |
| Kool Milds KFMSF                     | 12.1±0.4                   | 10.8±0.4                    | 0.86±0.03                        |
| Kent Micronite II KFSP               | 12.3±0.4                   | 12.2±0.3                    | 1.01±0.03                        |
| Vantage 100s 100FSP                  | 12.6±0.6                   | 8.6±0.3                     | 0.71±0.02                        |
| Marlboro Lights 100's 100FSP         | 12.7±0.5                   | 10.8±0.3                    | 0.85±0.02                        |
| Vantage KFMSF                        | 12.8±0.3                   | 8.6±0.2                     | 0.68±0.02                        |
| Pall Mall Light 100's 100FMSP        | 12.8±0.3                   | 12.8±0.3                    | 1.14±0.03                        |
| Marlboro Lights KFSP                 | 12.8±0.3                   | 11.1±0.3                    | 0.82±0.02                        |
| Benson & Hedges KFHP                 | 12.8±0.4                   | 15.3±0.5                    | 1.24±0.04                        |
| Viceroy Rich Lights 100FSP           | 12.8±0.4                   | 9.4±0.3                     | 0.80±0.02                        |
| Philip Morris RNFSP                  | 12.9±0.5                   | 21.7±0.7                    | 1.44±0.06                        |
| Benson & Hedges Lights 100's 100FSP  | 12.9±0.6                   | 10.5±0.4                    | 0.83±0.02                        |
| Vantage KFSP                         | 12.9±0.3                   | 8.8±0.3                     | 0.71±0.02                        |
| Kent Micronite II KFHP               | 13.0±0.5                   | 12.8±0.4                    | 1.00±0.03                        |
| Camel RNFSP                          | 13.0±0.3                   | 20.6±0.4                    | 1.39±0.03                        |
| Chesterfield RNFSP                   | 13.3±0.3                   | 20.9±0.5                    | 1.42±0.04                        |
| Eve Lights 100's 100FMSP             | 13.3±0.5                   | 12.6±0.3                    | 1.03±0.03                        |
| Lark Lights KFSP                     | 13.3±0.4                   | 13.7±0.4                    | 1.09±0.03                        |
| Benson & Hedges Lights 100's 100FHP  | 13.3±0.3                   | 11.3±0.2                    | 0.85±0.02                        |
| Raleigh Lights 100's 100FSP          | 13.5±0.6                   | 9.8±0.4                     | 0.84±0.04                        |
| Kool Milds 100FMSP                   | 13.5±0.3                   | 11.6±0.3                    | 0.92±0.03                        |
| Virginia Slims 100FMSP               | 13.5±0.3                   | 14.6±0.2                    | 1.04±0.02                        |
| Kent Micronite II 100FMSP            | 13.6±0.4                   | 14.3±0.3                    | 1.26±0.03                        |
| Kent Micronite II 100FSP             | 13.6±0.5                   | 14.2±0.4                    | 1.17±0.03                        |
| Eve Lights 100's 100FSP              | 13.6±0.5                   | 12.5±0.4                    | 1.05±0.03                        |
| Salem 100's 100FMSP                  | 13.7±0.3                   | 14.7±0.3                    | 1.20±0.03                        |
| Marlboro KFMSF                       | 13.8±0.4                   | 13.9±0.3                    | 0.91±0.02                        |
| Lark Lights 100's 100FSP             | 13.9±0.4                   | 14.4±0.4                    | 1.21±0.03                        |
| Picayune RNFSP                       | 14.0±0.6                   | 17.1±0.6                    | 1.24±0.03                        |
| Alpine KFMSF                         | 14.1±0.4                   | 14.1±0.3                    | 0.92±0.03                        |
| Lark KFSP                            | 14.1±0.4                   | 14.9±0.4                    | 1.19±0.03                        |
| Salem KFMSF                          | 14.2±0.3                   | 14.8±0.3                    | 1.10±0.03                        |
| Newport Red KFHP                     | 14.2±0.3                   | 12.8±0.2                    | 1.11±0.03                        |
| Marlboro KFMSF                       | 14.3±0.3                   | 14.8±0.5                    | 0.96±0.02                        |
| St. Moritz 100FSP                    | 14.4±0.4                   | 14.3±0.3                    | 1.18±0.02                        |
| English Ovals KNFHP                  | 14.4±0.6                   | 26.7±0.8                    | 2.24±0.06                        |
| Virginia Slims 100FSP                | 14.5±0.4                   | 14.7±0.4                    | 1.07±0.02                        |

| <u>Brands</u>                       | <u>CO</u><br><u>mg/cig</u> | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> |
|-------------------------------------|----------------------------|-----------------------------|----------------------------------|
| Kool RNFMS                          | 14.5±0.5                   | 18.7±0.6                    | 1.12±0.04                        |
| Camel Lights 100's 100FSP           | 14.5±0.3                   | 11.5±0.3                    | 0.89±0.03                        |
| Lark 100FSP                         | 14.6±0.4                   | 15.4±0.4                    | 1.30±0.04                        |
| St. Moritz 100FMSP                  | 14.7±0.5                   | 14.5±0.3                    | 1.21±0.03                        |
| Newport Red KFSP                    | 14.8±0.4                   | 13.1±0.3                    | 1.11±0.02                        |
| Winston 100's 100FSP                | 14.8±0.5                   | 14.6±0.4                    | 1.06±0.02                        |
| Oasis KFMS                          | 14.9±0.3                   | 14.8±0.2                    | 1.04±0.03                        |
| Marlboro KFHP                       | 14.9±0.4                   | 16.3±0.4                    | 1.12±0.03                        |
| Players RNFHP                       | 14.9±0.6                   | 24.5±0.7                    | 1.99±0.06                        |
| L & M KFHP                          | 15.0±0.4                   | 14.6±0.5                    | 1.06±0.04                        |
| Saratoga 120's 120FMHP              | 15.1±0.4                   | 14.0±0.4                    | 1.04±0.03                        |
| Chesterfield KFSP                   | 15.1±0.4                   | 14.9±0.4                    | 1.07±0.03                        |
| Winston Light 100's 100FSP          | 15.2±0.5                   | 11.9±0.4                    | 0.89±0.02                        |
| Camel Filters KFSP                  | 15.3±0.6                   | 15.4±0.5                    | 1.11±0.03                        |
| L & M KFSP                          | 15.4±0.6                   | 14.6±0.4                    | 1.07±0.03                        |
| Benson & Hedges 100's 100FMHP       | 15.4±0.3                   | 15.9±0.4                    | 1.11±0.03                        |
| Saratoga 120's 120FHP               | 15.5±0.7                   | 14.0±0.5                    | 1.02±0.06                        |
| Benson & Hedges 100's 100FHP        | 15.5±0.5                   | 15.9±0.5                    | 1.13±0.04                        |
| Chesterfield KNFSP                  | 15.6±0.6                   | 24.6±0.6                    | 1.75±0.05                        |
| Galaxy KFSP                         | 15.6±0.4                   | 15.1±0.4                    | 1.03±0.03                        |
| Winston KFHP                        | 15.6±0.6                   | 16.3±0.4                    | 1.10±0.03                        |
| Marlboro KFSP                       | 15.7±0.4                   | 16.8±0.5                    | 1.15±0.03                        |
| Kool KFMS                           | 15.8±0.5                   | 17.0±0.4                    | 1.23±0.03                        |
| Philip Morris International 100FMHP | 15.9±0.4                   | 15.4±0.4                    | 1.03±0.03                        |
| Kool Super Longs 100's 100FMSP      | 16.1±0.7                   | 13.7±0.4                    | 0.98±0.03                        |
| Philip Morris International 100FHP  | 16.1±0.3                   | 17.3±0.3                    | 1.20±0.03                        |
| Montclair KFMS                      | 16.1±0.4                   | 15.8±0.3                    | 1.11±0.03                        |
| Philip Morris Commander KNFSP       | 16.1±0.6                   | 26.9±0.7                    | 1.83±0.05                        |
| Newport KFMHP                       | 16.3±0.5                   | 15.8±0.3                    | 1.19±0.03                        |
| L & M 100FSP                        | 16.4±0.4                   | 14.5±0.4                    | 1.14±0.03                        |
| Marlboro 100's 100FSP               | 16.5±0.5                   | 16.4±0.5                    | 1.18±0.04                        |
| Tareyton KFSP                       | 16.5±0.6                   | 14.8±0.4                    | 1.12±0.03                        |
| Benson & Hedges 100's 100FMSP       | 16.5±0.4                   | 16.2±0.4                    | 1.19±0.03                        |
| Pall Mall 100FSP                    | 16.6±0.5                   | 16.0±0.4                    | 1.31±0.03                        |
| Chesterfield 101 100FSP             | 16.7±0.5                   | 14.7±0.4                    | 1.14±0.03                        |
| Max 120FMSP                         | 16.7±0.6                   | 17.9±0.4                    | 1.54±0.02                        |
| Benson & Hedges 100's 100FSP        | 16.8±0.5                   | 16.7±0.5                    | 1.20±0.04                        |
| Half & Half KFSP                    | 16.9±0.4                   | 17.8±0.5                    | 1.51±0.04                        |
| Lucky Strike RNFSP                  | 16.9±0.4                   | 24.5±0.6                    | 1.56±0.03                        |
| Kool KFMHP                          | 16.9±0.4                   | 16.3±0.4                    | 1.21±0.03                        |
| Winston KFSP                        | 17.0±0.4                   | 15.0±0.3                    | 1.07±0.02                        |
| Viceroy KFSP                        | 17.0±0.7                   | 14.8±0.4                    | 0.96±0.03                        |
| Tareyton 100's 100FSP               | 17.1±0.6                   | 14.3±0.4                    | 1.15±0.03                        |
| Marlboro 100's 100FHP               | 17.1±0.5                   | 16.5±0.4                    | 1.18±0.03                        |
| Winston International 100FHP        | 17.4±0.4                   | 18.1±0.4                    | 1.40±0.03                        |
| Pall Mall KNFSP                     | 17.4±0.4                   | 24.8±0.6                    | 1.70±0.04                        |
| Raleigh 100's 100FSP                | 17.5±0.4                   | 16.0±0.4                    | 1.12±0.02                        |

| <u>Brands</u>                   | <u>CO</u><br><u>mg/cig</u> | <u>Tar</u><br><u>mg/cig</u> | <u>Nicotine</u><br><u>mg/cig</u> |
|---------------------------------|----------------------------|-----------------------------|----------------------------------|
| Max 120FSP                      | 17.5±0.4                   | 18.5±0.4                    | 1.58±0.05                        |
| Spring 100FMSP                  | 17.5±0.7                   | 19.2±0.4                    | 1.15±0.03                        |
| Raleigh KFSP                    | 17.6±0.4                   | 15.2±0.4                    | 0.99±0.03                        |
| Tall 120s 120FMSP               | 17.6±0.8                   | 16.0±0.4                    | 1.42±0.03                        |
| Raleigh KNFSP                   | 17.6±0.6                   | 23.4±0.6                    | 1.37±0.04                        |
| Viceroy Super Long 100's 100FSP | 17.8±0.5                   | 14.8±0.4                    | 1.08±0.03                        |
| Long Johns 120FMSP              | 17.9±0.9                   | 15.9±0.5                    | 1.43±0.04                        |
| Newport KFMSP                   | 18.0±0.5                   | 17.0±0.4                    | 1.30±0.04                        |
| Old Gold Straights KNFSP        | 18.2±0.5                   | 26.9±0.6                    | 1.80±0.04                        |
| Pall Mall KFSP                  | 18.6±0.6                   | 17.6±0.4                    | 1.29±0.04                        |
| DuMaurier KFHP                  | 18.8±0.7                   | 16.8±0.8                    | 1.15±0.06                        |
| Old Gold Filters KFSP           | 19.1±0.5                   | 17.0±0.4                    | 1.37±0.04                        |
| Old Gold Filter 100's 100FSP    | 19.1±0.5                   | 19.1±0.4                    | 1.58±0.04                        |
| Herbert Tareyton KNFSP          | 19.2±0.6                   | 27.6±0.7                    | 1.94±0.05                        |
| Newport 100FMSP                 | 19.7±0.5                   | 19.3±0.4                    | 1.54±0.05                        |
| Long Johns 120FSP               | 19.8±0.8                   | 18.7±0.5                    | 1.59±0.04                        |
| More 120FMSP                    | 19.8±0.6                   | 15.6±0.3                    | 1.31±0.03                        |
| Tall 120s 120FSP                | 20.1±0.4                   | 18.2±0.5                    | 1.60±0.04                        |
| More 120FSP                     | 20.7±0.6                   | 16.7±0.5                    | 1.28±0.03                        |
| Bull Durham KFSP                | 23.1±0.4                   | 29.1±0.6                    | 2.10±0.06                        |